

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: May 16, 2002, 14:58:45 ; Search time 6516.55 Seconds
(without alignments)
8901.698 Million cell updates/sec

Title: US-09-898-556a-3

Perfect score: 2772

Sequence: 1 cagcgcgttaagctgtgtg.....tttctaccatcctcaccct 2772

Scoring table:

OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1797656 seqs, 10463268293 residues

Word size : 0

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

GenEmbl1:*
1: gb_ba:*
2: gb_hlg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
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10: gb_pro:*
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17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
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26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htgo_inv:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2772	100.0	2772	9	AB013897
2	2383	86.0	2854	9	AK056243
3	2244	81.0	135173	9	AC008806
4	2244	81.0	253217	2	AC016590
5	2193	79.1	38173	9	AC093235
6	1771	63.9	1998	9	BC004513
7	672	24.2	672	9	HUMHKL
8	571	20.6	678	6	AX067361
9	37	1.3	130351	2	AC024911
10	37	1.3	161625	2	AC096898
11	37	1.3	164264	2	AC034197
12	37	1.3	165379	2	AC069265
13	37	1.3	184375	2	AC026219
14	36	1.3	148270	2	AC027579
15	36	1.3	174405	2	AC022727
16	36	1.3	179792	2	AP001531
17	34	1.2	150794	2	AC025211
18	34	1.2	166650	2	AC087493
19	34	1.2	218922	2	AC008106
20	32	1.2	162453	2	AC027607
21	32	1.2	171279	2	AC036185
22	32	1.2	171601	2	AC026269
23	32	1.2	173133	2	AC016166
24	32	1.2	174701	2	AC098581
25	32	1.2	175833	2	AC073412
26	32	1.2	207362	9	AC007380
27	31	1.1	154746	9	AL157944
28	31	1.1	168736	2	AC019042
29	31	1.1	177864	9	AC024996
30	29	1.0	2328	9	HSMB00283
31	29	1.0	2790	9	AK056466
32	29	1.0	3178	9	AK056184
33	29	1.0	3273	9	BC021298
34	29	1.0	127867	9	HS694B14
35	29	1.0	170129	2	AC013770
36	29	1.0	181770	2	AC109473
37	28	1.0	2823	9	BC011862
38	28	1.0	3055	2	AK055734
39	28	1.0	61452	2	AC091936
40	28	1.0	62002	2	AF161800
41	28	1.0	65236	2	AC105030
42	28	1.0	80846	9	AL1512489
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44	28	1.0	109217	9	AF159227
45	28	1.0	131328	9	AC099798

ALIGNMENTS

RESULT	1	2772 bp	linear	PRI 03-NOV-1999
AB013897	AB013897	2772 bp	linear	PRI 03-NOV-1999
LOCUS	AB013897	2772 bp	linear	PRI 03-NOV-1999
DEFINITION	Homo sapiens mRNA for HKR1, partial cds.			
ACCESSION	AB013897			
VERSION	AB013897.1	GI:6177784		
KEYWORDS	HKR1.			
SOURCE	Homo sapiens leukemia cell cell_line:CMK86 cDNA to mRNA.			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
AUTHORS	Oguri,T., Katoh,O., Takahashi,T., Isobe,T., Kuramoto,K., Hirata,S., Yamakido,M. and Watanabe,H.			
TITLE	The Kruppel-type Zinc Finger Family Gene, HKR1, Is Induced in Lung Cancer by Exposure to Platinum Drugs			
JOURNAL	Unpublished (1998)			
REFERENCE	2 (bases 1 to 2772)			
AUTHORS	Katoh,O.			
TITLE	Direct Submission			
JOURNAL	Submitted (13-MAY-1998) Osamu Katoh, Res. Inst. Radiation Biology and Medicine, Hiroshima Univ., Department of Environment and Mutation; Kasumi 1-2-3, Minami-Ku, Hiroshima 734-8553,			

QY 1501 cacactcagggtttaaactatgtctctgtgagtcgagcgagtgctttagccctgaagt 1560
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 DB 2521 TATTTTACGTATACCTGCTTCTTCTTAATGTGTTTATACACTGCTGTGCCACACTTTTGA 2580

QY 2581 gtgtgctctgtacatacttaacaatcagtcacagtgatattccctattctgagccataa 2640
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 DB 2761 CATCCTCACCCCT 2772

RESULT 2
 AK056243
 LOCUS
 DEFINITION Homo sapiens cDNA FLJ131681 f1s, clone NT2R12005315, highly similar
 to Homo sapiens mRNA for HKRL.
 ACCESSION AK056243
 VERSION AK056243.1 GI:16551590
 KEYWORDS oligo capping; f1s (full insert sequence);
 SOURCE Homo sapiens teratocarcinoma cell line:NT2 cDNA to mRNA,
 clone lib:NT2R12 clone:NT2R12005315.
 ORGANISM Homo sapiens
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (sites)
 AUTHORS Ihibashi,T., Kanehori,K., Yosida,M., Watanabe,S., Ishida,S.,
 Ono,Y., Hotuta,T., Hiraoka,S., Murakawa,K., Takiguchi,S.,
 Kusano,J., Watanabe,M., Fujimori,K., Tanai,H., Ishida,M.,
 Yamashita,H., Chiba,Y., Sugiyama,T., Irie,R., Otsuki,T., Sato,H.,
 Wakamatsu,A., Ishii,S., Yamamoto,J., Isono,Y., Kawal,Hio,Y.,
 Saito,K., Nishikawa,T., Kimura,K., Matsuo,K., Nakamura,Y.,
 Sekine,M., Kikuchi,H., Kanda,K., Wagatsuma,M., Takahashi-Fujii,A.,
 Oshima,A., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S.,
 Nagahari,K., Masuno,Y., Nagai,K. and Isogai,T.
 NEBO human cDNA sequencing project
 TITLE NEBO human cDNA sequencing project
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 2854)
 AUTHORS Isogai,T., Otsuki,T. and Sugiyama,T.
 TITLE Direct Submission
 JOURNAL Submitted (24-OCT-2001) Takao Isogai, Helix Research Institute,
 Genomics Laboratory, 1532-3 Yana, Katsurazu, Chiba 297-0812, Japan
 (E-mail:genomics@hri.co.jp, Tel:81-438-52-3951, Fax:81-438-52-3952)
 COMMENT NEBO human cDNA sequencing project supported by Ministry of
 Economy, Trade and Industry of Japan; cDNA full insert sequencing:
 Research Association for Biotechnology (RAB); cDNA library
 construction: Helix Research Institute (HRI) (supported by Japan
 key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,
 HRI, and Biotechnology Center, National Institute of Technology and
 Evaluation; clone selection for full insert sequencing: RAB and
 HRI.

FEATURES
 SOURCE
 location/Qualifiers
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="NT2R12005315"
 /cell_line="NT2"
 /cell_type="teratocarcinoma"
 /note="cloning vector: pME18SFL3-mRNA from NT2 neuronal
 precursor cells treated 2-weeks mitotic inhibitor after
 5-weeks retinoic acid (RA) induction.-majority NT2 neuron"
 BASE COUNT 761 a 692 c 754 g 647 t
 ORIGIN
 Query Match 86.0%; Score 2383; DB 9; Length 2854;
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 2433: Conservative 0; Mismatches 1; Indels 0; Gaps 0;				
Oy	334	aaatccatcttctaaccacaaactatctcagctgagcgagggagcccttga	393	
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Oy	394	gagagagagaaaatgtccacttgcacatctgtccagaatcgagccagaatcaacta	453	
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Oy	514	gtcatctctcagctgttltcaaglttaatggcgagaatcctctccctcgtgggaaaac	573	
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Oy	574	actatccagaagatcaagaacaacagcagatccatctgtctttagtggcaagcagaat	633	
Db	661	ACTATCCAGAAATCAGAAACAACAGCAGATCCATTTGCTTGTAGTGCAAGCAGAAAT	720	
Oy	634	gattcaagaaggagaagatccagatccctgttggagagtaagcaaaaatgtgcactt	693	
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Oy	694	caaaagcacttccagccacactgaagaacaacagccagcagctccaagagaacaaca	753	
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Db	841	CAGTGGTGAATAGGGTCCAGCCCTGAACGAGGGGCAATCTAAGGAACAGCAAAAG	900	
Oy	814	tatgcagtgattagaatctcaggaatttggagaatcaaatatagaagtttggcgag	873	
Db	901	TATTCATAGGTTTAGAAGTCTCAGATTTGGAGAAATCAAAATTAAGATTTGGGCCAG	960	
Oy	874	gcttatacagagatcaaacctcctctttagcctccagaagaacacaaactgggagacactt	933	
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Oy	934	acatgtacacatgagtgaggagagacacttggagatagtctcctcaataaaaccca	993	
Db	1021	ACATGTACACTGAGTGGGAGACACTTGGCATGTGCACTCTCATCAAAAACCCAA	1080	
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Oy	1054	agtcaaacctgtatcacatcatcagagagacactcaggggagaacctatgtctgcaag	1113	
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Oy	1114	atttggagcagggcttctcttgggaagtgcgaacctttaaataatagcggaaacctag	1173	
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Db	1261	GGCTCAAGCCTTATGTGTGCAAGGAATGTGGGCAAGCTTTAGCTGAAGTCAAACTCA	1320	
Oy	1234	ttaaccaccagaaggcgacacacttgggagaagccttatgttgcaggaatgttggcggtg	1293	
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Oy	1294	gcttcgcagcatcacacacctgtgcagacacaaagaagacacaaatccagagagaagcctt	1353	
Db	1381	GCTTTCGCGCATTCACACCTGTGACAGACAAAGAGACACATTTACAGAGAGCCCTT	1440	
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Oy	1414	ggacacacacagagagaagaccttatgtatgcacagaatgttggcgtaacctttagctga	1473	
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Oy	1834	gggcacactcagtgcttctgtgtcagaggaatgtggcgagagcctttagtctaagttaa	1893	
Db	1921	GGGCACACTCAGAGTCTTGTGTGTCAGGAGTGTGGCAAGCTTGTGTGCTAAGTTAA	1980	
Oy	1894	ctctcataaacacagagagacacagcgagggggaagcctatgttgcagagagtg	1953	
Db	1981	CTCTATTAAACACAGAGAGCACACAGGGGGGAAGCTTATGTGTCAAGGAGTGTG	2040	
Oy	1954	ggcaagcctttagccggagtcacacctcatatagaacacacagaagaacatltcagaagaga	2013	
Db	2041	GGCAAGGCTTATAGCCGGCAGTCCACACTCATTAAGACACACAGGAGACATTCAGAGAGA	2100	
Oy	2014	agccttatatttgcagaaagtgtagcaggggctttagtcggaagtcgaaccttatcagag	2073	
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Oy	2074	atcagaagacacactcagagatagaaccttatgttataaggaatgtgttacaagccttla	2133	
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RESULT 3
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LOCUS Homo sapiens chromosome 19 clone CTD-2086020, complete sequence.
DEFINITION AC008806
AC008806
VERSION AC008806.4 GI:7656695
KEYWORDS HNG.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 135173)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Unpublished
2 (bases 1 to 135173)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
3 (bases 1 to 135173)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Submitted (27-APR-2000) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
On Apr 27, 2000 this sequence version replaced gi:6600982.
COMMENT Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing completed at Stanford Human Genome Center
www.sbgc.stanford.edu
Quality: Phrap Quality >=40 99.5% of Sequence:
Estimated Total Number of Errors is 0.6.
SHGC-141611 G63592
SHGC-37349 G30531
SHGC-86030 G61627.

FEATURES
source 1. 135173 location/Qualifiers
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 2344; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 126941 CAGAAATCGAAGCCAGAAATTCACCTAGTCCCTGCGCTCTGATTTTCTCCAGTCAAC 126882

QY 487 aaagctcgaagccaaacatgtgtgctgagtaactctctcagctgtttcgaagttaagg 546
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RESULT 4
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LOCUS AC016590
DEFINITION Homo sapiens chromosome 19 clone CTD-3220F14, WORKING DRAFT
ACCESSION AC016590
VERSION AC016590.6 GI:13699590
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ACTIVEFIN.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 253217)
AUTHORS DOE Joint Genome Institute.
TITLE Sequencing of Human Chromosome 19
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 253217)
AUTHORS DOE Joint Genome Institute.
TITLES Direct Submission
SUBMITTED (04-DEC-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
ON APR 20, 2001 this sequence version replaced gi:7711568.
-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web Site: http://www.jgi.doe.gov

Project Information
Center Project Name: 940643, BC905667
Center clone name: C19B-EL_3220F14

Summary Statistics
Consensus quality: 207648 bases at least Q40
Consensus quality: 225569 bases at least Q30
Consensus quality: 232428 bases at least Q20
Estimated insert size: 250510; agarose-fp estimation
Estimated insert size: 249417; sum-of-contigs estimation
Quality coverage: 9.03 in Q20 bases; agarose-fp estimation
Quality coverage: 9.07 in Q20 bases; sum-of-contigs estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 39 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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* 1020 1119: gap of unknown length
* 1120 2152: contig of 1033 bp in length
* 2153 2252: gap of unknown length
* 2253 3701: contig of 1449 bp in length
* 3702 3801: gap of unknown length
* 3802 5053: contig of 1252 bp in length
* 5054 5153: gap of unknown length
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* 6185 6285: gap of unknown length
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* 8986 9086: gap of unknown length

* 9087 10090: contig of 1004 bp in length
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* 11226 11325: gap of unknown length
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* 12366 12465: gap of unknown length
* 12466 14535: contig of 2070 bp in length
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* 21842 21942: gap of unknown length
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FEATURES
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/clone="CTD-3220F14"

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Oy 607 catctcgttagtgcgaagcagaatgattcagaagaggaagaactccagactctgtc 666
Db 74691 CATCTGCTTATGTTGCAAGCAGAAATGATTCAGAGGAGAGAAACATCCAGACTCTGT 74750
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VERSION	AC093235.2	GI:15808549	
KEYWORDS	HTG.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 38173) DOE Joint Genome Institute and Stanford Human Genome Center. Direct Submission Unpublished 2 (bases 1 to 38173) DOE Joint Genome Institute.		
JOURNAL	Submitted (16-AUG-2001) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA 3 (bases 1 to 38173) DOE Joint Genome Institute and Stanford Human Genome Center. Direct Submission Submitted (29-SEP-2001) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA On Sep 29, 2001 this sequence version replaced gi:15193369. Draft Sequence Produced by DOE Joint Genome Institute www.jgi.doe.gov Finishing Completed at Stanford Human Genome Center www.sngc.stanford.edu Quality: Phrap Quality >=40 99.9% of Sequence; Estimated Total Number of Errors Is 0.		
FEATURES			
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Df	28948	AAGCTCTCAGCCACACATGTGTGGCTGAGATTCATCTCTCAGCTGTGTTTCAAGTTATGSG	29007

QY 547 caagaaatccctccacatggaagaacatcagaagaatcagaagaacagaagagatc 606
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BC004513 1998 bp mRNA linear PRI 12-JUL-2001
LOCUS BC004513
DEFINITION Homo sapiens, clone IMAGE:3928207, mRNA, partial cds.
ACCESSION BC004513
VERSION BC004513.1 GI:3325426
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (12-MAR-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: http://mgc.ncl.nih.gov
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: DCTD/DP
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbio.org
contact: amandastembiology.org
Anup Madan, Rachel Dickhoff, Jessica Fahey, Stephanie Ford, Julia
Greene, Mark Kettelman and Anuradha Madan
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov
Series: IRAL Plate: 14 Row: b Column: 10
This clone was selected for full length sequencing because it
passed the following selection criteria: Hexamer frequency ORF
analysis.
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Matches 1941; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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VERSION	M20675.1	GI:184108		
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ORGANISM	Homo sapiens			
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AUTHORS	Ruppert,J.M., Kinzler,K.W., Wong,A.J., Biglieri,S.H., Kao,F.-T., Lae,M.L., Senanez,H.N., O'Brien,S.J. and Vogelstein,B.
TITLE	The G1-Ruppel family of human genes
JOURNAL	Mol. Cell. Biol. 8, 3104-3113 (1988)
MEDLINE	89096896
COMMENT	computer-readable sequence for [1] kindly provided by J.M.Ruppert, 20-JUN-1988.
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DEFINITION Sequence 65 from Patent W0078960.
ACCESSION AX067361
VERSION AX067361.1 GI:12544985
KEYWORDS
SOURCE
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 678)
AUTHORS Yugi,J. and Mitcham,J.L.
TITLE Compositions and methods for the therapy and diagnosis of breast cancer
JOURNAL Patent: WO 0078960-A 65 28-DEC-2000;
CORIXA CORPORATION (US)
FEATURES
source 1, 678
Location/Qualifiers
misc_feature /organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 165 a 167 c 160 g 182 t 4 others
ORIGIN
Query Match 20.6%; Score 571; DB 6; Length 678;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2078 ggggagacacacagagataaacttattgtataggaagtgtgtacagcctttagcca 2137
DB 9 GAGGACACACTGAGATAGAACTTATGTATAGGAGATGTGTACAGCCTTAGCCA 68
QY 2138 ggaatcatcatcctcatagacacacagagacacacacagtcgtgtgcttttcagccatt 2197
DB 69 GGAGTATACCTTCATAGACACACAGAGACACACAGTGTGTGCTTTTCAGCAATT 128
QY 2198 gctagataccacaaagtgagacattctgtgtgattatgcatgagacgttactgtgaaga 2257
DB 129 GCTAATATACCAAGTGAGACATTTCTGTGTGATATGATGACATGACCTGATGTAAGA 188
QY 2258 ctgtatctccatccacacacacaggaagtgtgtgtctatcttccaggaacccctgacctc 2317
DB 189 CTTGTATCTCCATCCACCTGGAAGGAATTTGCTGCTCATTTTCAGACCCCTGCCCTTC 248
QY 2318 ctcaactgtgagatgt 2377
DB 249 CTCACATGTGTGATGT 308
QY 2378 caaatgcccagagacagataggggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2437
DB 309 CAAATGCCAGGCGACATAGGGGT 368
QY 2438 gtcccgagctaaatctctcaactgaattgtgaacccgtctctccattgtgtgtgtgtgtgt 2497
DB 369 GTCCGGGCTAAATCCCTCATCTGTAATGTGAACCTGTCTCCATTGTGTGTGTGTGTGTGT 428
QY 2498 ccgaattgatcccaaccccttcaactatttcaatgatatccctgaccttccctaattgtttt 2557
DB 429 CCGATTGATCCCAACCCCTTACACTATTTCATGATACCTGCTTCCTTAATTTGGTTTTT 488
QY 2558 aaactgt 2617
DB 489 ACATGCTGT 548
QY 2618 attccctcatctgtgacccataaagaccga 2648
DB 549 ATTCCCTATTTCTGAGCCCATTAAGACCCA 579

RESULT 9
AC024911
LOCUS AC024911 130351 bp DNA 1linear HTG 02-MAR-2000
DEFINITION Homo sapiens chromosome 3p clone RP11-420a23, WORKING DRAFT

SEQUENCE, 32 unordered pieces.
AC024911
AC024911.1 GI:7143406
HTG: HTGS_PHASE1; HTGS_DRAFT.
KEYWORDS
SOURCE
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 130351)
AUTHORS Lu,G., Zhao,Y., Lin,H., Dong,H., Wan,M., Xu,S., Gu,M., Tu,Y.,
Jia,J., Wu,C., Zhang,C., Zhong,M., Zhou,Y., Ren,S., Fu,G., Chen,Z.
and Huang,M.
Direct Submission
Submitted (02-MAR-2000) Genomic Dept., Chinese National Human
Genome Center at Shanghai, 315 Guo Shou Jing Road, Shanghai,
Shanghai 201203, P. R. China
-----Genome Center Information-----
Center: Chinese National Human Genome Center at Shanghai
Center Code: CHGC
Web site: <http://www.chgc.sh.cn>
Email: mhuang@chgc.sh.cn or fugang@chgc.sh.cn
-----End Genome Center Information-----
* NOTE: This is a working draft sequence. It currently
* consists of 32 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1 2267: contig of 2267 bp in length
2268 4378: contig of 211 bp in length
4379 6650: contig of 2272 bp in length
6651 8791: contig of 2141 bp in length
8792 11482: contig of 2691 bp in length
11483 13872: contig of 2390 bp in length
13873 16745: contig of 2873 bp in length
16746 18965: contig of 2220 bp in length
18966 21604: contig of 2639 bp in length
21605 24066: contig of 2462 bp in length
24067 26444: contig of 2378 bp in length
26445 29243: contig of 2799 bp in length
29244 31995: contig of 2752 bp in length
31996 34538: contig of 2543 bp in length
34539 37970: contig of 3432 bp in length
37971 41593: contig of 3623 bp in length
41594 44802: contig of 3209 bp in length
44803 48691: contig of 3889 bp in length
48692 52259: contig of 3568 bp in length
52260 55732: contig of 3473 bp in length
55733 57756: contig of 2024 bp in length
57757 61389: contig of 3633 bp in length

* gap of unknown length
* 61390 65398: contig of 4009 bp in length
* gap of unknown length
* 65399 69740: contig of 4342 bp in length
* gap of unknown length
* 69741 74577: contig of 4837 bp in length
* gap of unknown length
* 74578 80165: contig of 5588 bp in length
* gap of unknown length
* 80166 86055: contig of 5890 bp in length
* gap of unknown length
* 86056 89215: contig of 3160 bp in length
* gap of unknown length
* 89216 94479: contig of 5264 bp in length
* gap of unknown length
* 94480 103136: contig of 8657 bp in length
* gap of unknown length
* 103137 113254: contig of 10118 bp in length
* gap of unknown length
* 113255 130351: contig of 17097 bp in length.
Location/Qualifiers
1.130351
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="3p"
/clone="RP11-420a23"

BASE COUNT 38785 a 26050 c 26300 g 39176 t 40 others
ORIGIN

Query Match 1.3%; Score 37; DB 2; Length 130351;
Best Local Similarity 100.0%; Pred. No. 2.4e-09;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2462 attgagacctgtctccattgtgtgtctctc 2498
|||||
Db 69153 ATTGAGAACCTGTCTCCATTGTGTGTCTCTC 69189

RESULT 10
AC096898 161625 bp DNA linear HTG 12-JAN-2002
LOCUS Homo sapiens chromosome 4 clone RP11-618K19, WORKING DRAFT
DEFINITION
SEQUENCE 3 unordered pieces.
AC096898.5 GI:18139542
VERSION HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ACTIVEFIN.
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 161625)
AUTHORS Waterston,R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
2 (bases 1 to 161625)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (01-OCT-2001) Genome Sequencing Center, Washington
REFERENCE University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT On Jan 12, 2002 this sequence version replaced gi:17921273.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@wustl.wustl.edu
----- Project Information -----
Center project name: H_NH0618K19
----- Summary Statistics -----
Sequencing vector: M13; 0%

Sequencing vector: plasmid; 100%
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 160310 bases at least Q40
Consensus quality: 160620 bases at least Q30
Consensus quality: 160738 bases at least Q20
Insert size: 164000; agarose-fp
Insert size: 161425; sum-of-contigs
Quality coverage: 7.76 in Q20 bases; agarose-fp
Quality coverage: 8.11 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1 3023: contig of 3023 bp in length
* 3024 3123: gap of unknown length
* 3124 115853: contig of 112750 bp in length
* 115854 115953: gap of unknown length
* 115954 161625: contig of 45672 bp in length.
Location/Qualifiers
1.161625
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="4"
/clone="RP11-618K19"
1.3023
/note="assembly_name:Contig24
clone_end:SP6
vector_side:left"
3124.115853
/note="assembly_name:Contig26
clone_end:T7
vector_side:right"
115954.161625
/note="assembly_name:Contig25"

BASE COUNT 47603 a 31872 c 31765 g 50185 t 200 others
ORIGIN

Query Match 1.3%; Score 37; DB 2; Length 161625;
Best Local Similarity 100.0%; Pred. No. 2.4e-09;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2462 attgagacctgtctccattgtgtgtctctc 2498
|||||
Db 110301 ATTGAGAACCTGTCTCCATTGTGTGTCTCTC 110337

RESULT 11
AC034197 164264 bp DNA linear HTG 29-MAY-2000
LOCUS Homo sapiens chromosome 3 clone RP11-72801 map 3p, WORKING DRAFT
DEFINITION
SEQUENCE 14 unordered pieces.
AC034197.3 GI:8101273
VERSION HTG; HTGS_PHASE1; HTGS_DRAFT.
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 164264)
AUTHORS Bao,J., Bao,Q., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H.,
Dong,W., Fan,H., Feng,X., Guan,Q., Gu,X., Guo,D., He,L., Hu,S.,
Huang,F., Jin,Y., Kang,N., Li,C., Li,G., Li,D., Li,D.,
Li,S., Li,T., Liu,Y., Liu,N., Liu,B., Liu,Y., Li,W., Li,W., Li,Y.,
Luo,J., Niu,Y., Qi,Q., Qi,X., Song,S., Sun,M., Sun,W., Sun,Y.,
Tao,R., Wang,H., Wang,J., Wang,D., Wang,L., Wang,L., Wang,R.,

TITLE
JOURNAL
REFERENCE
AUTHORS
Wang, X., Wang, X., Wang, Y., Wu, D., Wu, Q., Xie, F., Xuan, Z., Xue, Y.,
Yan, C., Yang, X., Yu, B., Zeng, Y., Zhang, G., Zhang, H., Zhang, H.,
Zhang, L., Zhang, M., Zhang, X., Zhang, X., Zhang, Y., Zhang, Y.,
Zhang, Z., Zhu, B., Yu, J. and Yang, H.
Chromosome 3p genomic sequence
2 (bases 1 to 164264)
Unpublished
Zeng, Y., Hu, S., Dong, W., Wang, J., Zhang, Y., Zhang, H., Liu, B.,
Bao, W., Sun, Y., Wu, Q., Wang, H., Yang, X., Cheng, C., Wang, Y.,
Qi, X., Li, T., Zhang, H., Liu, N., Wu, D., Yu, B., Fan, H., Liu, Y.,
Li, G., Li, C., Bao, Q., Bao, J., Wang, X., Song, L., Zhang, L., Guo, D.,
Huang, F., Zhang, G., Li, J., Bian, X., Zhang, M., Li, L., Feng, X., Yu, J.
and Yang, H.
Direct Submission
Submitted (05-APR-2000) Human Genomic Center, Institute of
Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing
100101, P. R. China
On May 29, 2000 this sequence version replaced gi:7644466.
-----Genome Center
Center: Beijing Center
Center code: Beijing
Website: http://hgsc.igtp.ac.cn
http://www.genomics.org.cn
Contact: hgsc@igtp.ac.cn
-----Project Information
Center project name: 1% project
Center clone name: RP11-72801
-----Summary Statistics
Sequencing vector: pUC18; 100% of reads
Chemistry: Dye-terminator; Big Dye; 45% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 159801 bases at least Q40
Consensus quality: 163151 bases at least Q30
Consensus quality: 165125 bases at least Q20
Insert size: 158755; sum-of-contigs
Quality coverage: 4.57x in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 14 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1
2043: contig of 2043 bp in length
2044 2143: gap of unknown length
2144 4407: contig of 2264 bp in length
4408 4507: gap of unknown length
4508 5590: contig of 1083 bp in length
5591 5690: gap of unknown length
5691 8894: contig of 3204 bp in length
8895 12938: contig of 3944 bp in length
12939 13038: gap of unknown length
13039 19151: contig of 6113 bp in length
19152 19251: gap of unknown length
19252 24784: contig of 5533 bp in length
24785 24884: gap of unknown length
24885 32377: contig of 7493 bp in length
32378 32477: gap of unknown length
32478 41545: contig of 9068 bp in length
41546 41645: gap of unknown length
41646 50878: contig of 9233 bp in length
50879 50978: gap of unknown length
50979 62812: contig of 11834 bp in length
62813 62912: gap of unknown length
62913 88788: contig of 25876 bp in length
88789 88888: gap of unknown length
88889 115986: contig of 27098 bp in length
115987 116086: gap of unknown length
116087 164264: contig of 48178 bp in length.

FEATURES
source
Location/Qualifiers
1..164264
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="3p"
/map="3p"
/clone="RP11-72801"
1..2043
/note="assembly_name:Contig4"
2144..4407
/note="assembly_name:Contig5"
4508..5590
/note="assembly_name:Contig6
vector_side:right"
5691..8894
/note="assembly_name:Contig7"
8995..12938
/note="assembly_name:Contig8"
13039..19151
/note="assembly_name:Contig9"
19252..24784
/note="assembly_name:Contig10"
24885..32377
/note="assembly_name:Contig11"
32478..41545
/note="assembly_name:Contig12"
41646..50878
/note="assembly_name:Contig13"
50979..62812
/note="assembly_name:Contig14"
62913..88788
/note="assembly_name:Contig15"
88889..115986
/note="assembly_name:Contig16"
116087..164264
/note="assembly_name:Contig17"
BASE COUNT 46659 a 32302 c 32891 g 51080 t 1332 others
ORIGIN
Query Match 1.3% Score 37; DB 2; Length 164264;
Best Local Similarity 100.0%; Pred. No. 2,4e-09;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2462 atcgagaccgtctccatctgtgtccttc 2498
|||||
Db 55166 ATTGAGACGCTGCTCCATTGCTGCTTCTC 55202
RESULT 12
AC069265
LOCUS
DEFINITION Homo sapiens chromosome 3 clone RP11-208K18 map 3p, WORKING DRAFT
SEQUENCE 7 unordered pieces.
ACCESSION AC069265.2 GI:8101151
VERSION AC069265
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 165379)
Bao, W., Bao, Q., Bao, W., Bian, X., Cao, T., Chen, C., Chen, J., Ding, H.,
Dong, W., Fan, H., Feng, X., Guan, Q., Gu, X., Guo, D., He, L., Hu, S.,
Huang, F., Jin, Y., Kang, N., Li, C., Li, C., Li, G., Li, J., Li, L.,
Li, S., Li, T., Liu, Y., Liu, N., Liu, B., Liu, Y., Li, W., Li, W., Li, Y.,
Luo, J., Niu, Y., Qi, Q., Qi, X., Song, S., Sun, M., Sun, W., Sun, Y.,
Tao, R., Wang, H., Wang, J., Wang, J., Wang, L., Wang, L., Wang, R.,
Wang, X., Wang, X., Wang, Y., Wu, D., Wu, Q., Xie, F., Xuan, Z., Xue, Y.,
Yan, C., Yang, X., Yu, B., Zeng, Y., Zhang, G., Zhang, H., Zhang, H.,
Zhang, L., Zhang, M., Zhang, X., Zhang, X., Zhang, Y., Zhang, Y.,
Zhang, Z., Zhu, B., Yu, J. and Yang, H.

TITLE	JOURNAL	REFERENCE	AUTHORS
Chromosome 3p genomic sequence	Unpublished	2 (bases 1 to 165379)	Wang, L., Hu, S., Dong, W., Wang, J., Zhang, Y., Zhang, H., Liu, B., Bao, W., Sun, Y., Wu, Q., Wang, H., Yang, X., Cheng, C., Wang, Y., Niu, Y., Qi, X., Li, T., Zhang, H., Liu, N., Wu, D., Yu, B., Fan, H., Liu, Y., Li, G., Li, C., Bao, Q., Bao, J., Wang, X., Song, L., Zhang, L., Guo, D., Huang, F., Zhang, G., Li, J., Bian, X., Zhang, M., Li, L., Feng, X., Yu, D., and Yang, H.
Direct Submission		Submitted (23-MAY-2000) Human Genomic Center, Institute of Genetics, Chinese Academy of Sciences, Datun Road, Beijing, 100101, P.R.China	
On May 29, 2000 this sequence version replaced gi:8039668.			
-----Genome Center			
Center:Beijing Center			
Website:http://hgsc.igtp.ac.cn			
Contact:hgsc@igtp.ac.cn			
-----Project Information			
Center project name:1% project			
Center clone name: RP11-208K18			
-----Summary Statistics			
Sequencing vector: pUC18; 100% of reads			
Chemistry: Dye-terminator: ET 55% of reads			
Chemistry: Dye-terminator Big Dye; 45% of reads			
Assembly program: Phrap; version 0.990329			
Consensus quality: 164602 bases at least Q40			
Consensus quality: 165885 bases at least Q20			
Consensus quality: 166968 bases at least Q20			
Insert size: 162389; sum-of-contigs			
Quality coverage: 6.82x in Q20 bases;sum-of-contigs			

* NOTE: This is a 'working draft' sequence. It currently			
* consists of 7 contigs. The true order of the pieces			
* is not known and their order in this sequence record is			
* arbitrary. Gaps between the contigs are represented as			
* runs of N, but the exact sizes of the gaps are unknown.			
* This record will be updated with the finished sequence			
* as soon as it is available and the accession number will			
* be preserved.			
* 1 1874: contig of 1874 bp in length			
* 1875 1974: gap of unknown length			
* 1975 8441: contig of 6467 bp in length			
* 8442 8541: gap of unknown length			
* 8542 20983: contig of 14442 bp in length			
* 20984 21083: gap of unknown length			
* 21084 38290: contig of 17207 bp in length			
* 38291 38390: gap of unknown length			
* 38391 56760: contig of 18370 bp in length			
* 56761 56860: gap of unknown length			
* 56861 93526: contig of 36666 bp in length			
* 93527 93626: gap of unknown length			
* 93627 165379: contig of 71753 bp in length.			
* Location/Qualifiers			
1. 165379			
/organism="Homo sapiens"			
/db_xref="taxon:9606"			
/chromosome="3"			
/map="3p"			
/clone="RP11-208K18"			
1. 1874			
/note="assembly_name:Contig3"			
1975. 8441			
/note="assembly_name:Contig4"			
8542. 20983			
/note="assembly_name:Contig5"			
21084. 38290			
/note="assembly_name:Contig6"			
38391. 56760			
/note="assembly_name:Contig7"			
56861. 93526			

misc_feature		/note="assembly_name:Contig8"	
93627..165379		/note="assembly_name:Contig9"	
BASE COUNT	51415 a 32065 c 32897 g 48394 t	608 others	
ORIGIN			
Query Match	1.3%	Score 37;	DB 2; Length 165379;
Best Local Similarity	100.0%;	Pred. No. 2,4e-09;	
Matches 37;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
OY 2462	attgagaacctgtctccattgtgtgcttctc 2498		
Db 83650	ATTGAGAACCTGCTCTCCATTGTGTGCTTCTC 83886		
RESULT 13			
AC026219			
LOCUS	AC026219	184375 bp	DNA linear HTG 29-MAY-2000
DEFINITION	Homo sapiens chromosome 3 clone RP11-815J19 map 3p, WORKING DRAFT		
ACCESSION	AC026219		
VERSION	AC026219.2 GI:8101287		
KEYWORDS	HTG; HTGS_PHASE1; HTGS_DRAFT.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
AUTHORS	1 (bases 1 to 184375)		
	Bao,J., Bao,Q., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H., Dong,W., Fan,H., Feng,X., Guan,Q., Gu,X., Guo,D., He,L., Hu,S., Huang,F., Jin,Y., Kang,N., Li,C., Li,G., Li,J., Li,L., Li,S., Li,T., Liu,Y., Liu,N., Liu,B., Liu,Y., Li,W., Li,W., Li,Y., Luo,J., Niu,Y., Qi,Q., Qi,X., Song,S., Sun,M., Sun,W., Sun,Y., Tao,R., Wang,H., Wang,J., Wang,J., Wang,L., Wang,L., Wang,R., Wang,X., Wang,X., Wang,Y., Wu,D., Wu,Q., Xie,F., Xuan,Z., Xue,Y., Yan,C., Yang,X., Yu,B., Zeng,Y., Zhang,G., Zhang,H., Zhang,H., Zhang,L., Zhang,M., Zhang,X., Zhang,X., Zhang,Y., Zhang,Y., Zhang,Z., Zhu,B., Yu,T. and Yang,H.		
TITLE	Chromosome 3p genomic sequence		
JOURNAL	Unpublished		
REFERENCE	2 (bases 1 to 184375)		
AUTHORS	Kang,N., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B., Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J. and Yang,H.		
	Direct Submission		
	Submitted (21-MAR-2000) Human Genomic Center, Institute of Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing 100101, P.R.China		
COMMENT	On May 29, 2000 this sequence version replaced gi:7272036.		
	-----Genome Center		
	Center:Beijing Center		
	Center code:Beijing		
	Website:http://hgsc.igtp.ac.cn		
	http://www.genomics.org.cn		
	Contact:hgsc@igtp.ac.cn		
	----- Project Information		
	Center project name:1% project		
	Center clone name: RP11-815J19		
	----- Summary Statistics		
	Sequencing vector: pUC18; 100% of reads		
	Chemistry: Dye-terminator; ET 55% of reads		
	Chemistry: Dye-terminator Big Dye; 45% of reads		
	Assembly program: Phrap; version 0.990329		
	Consensus quality: 146985 bases at least Q40		
	Consensus quality: 167323 bases at least Q30		
	Consensus quality: 182494 bases at least Q20		
	Insert size: 122192; sum-of-contigs		
	Quality coverage: 3.83x in Q20 bases;sum-of-contigs		

* NOTE: This is a 'working draft' sequence. It currently
* consists of 56 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 1389: contig of 1389 bp in length
1390 1489: gap of unknown length
1490 3602: contig of 2113 bp in length
3603 3702: gap of unknown length
3703 6147: contig of 2445 bp in length
6148 6247: gap of unknown length
6248 7841: contig of 1594 bp in length
7842 7941: gap of unknown length
7942 9569: contig of 1628 bp in length
9570 9669: gap of unknown length
9670 11970: contig of 2301 bp in length
11971 12070: gap of unknown length
12071 13209: contig of 1139 bp in length
13210 13309: gap of unknown length
13310 14906: contig of 1597 bp in length
14907 15006: gap of unknown length
15007 16915: contig of 1909 bp in length
16916 17015: gap of unknown length
17016 18655: contig of 1640 bp in length
18656 18755: gap of unknown length
18756 20974: contig of 2219 bp in length
20975 21074: gap of unknown length
21075 22409: contig of 1335 bp in length
22410 22509: gap of unknown length
22510 24337: contig of 1828 bp in length
24338 24437: gap of unknown length
24438 25826: contig of 1389 bp in length
25827 25926: gap of unknown length
25927 27769: contig of 1843 bp in length
27770 27869: gap of unknown length
27870 29441: contig of 1572 bp in length
29442 29541: gap of unknown length
29542 32594: contig of 2953 bp in length
32495 32594: gap of unknown length
32595 34633: contig of 2039 bp in length
34634 34733: gap of unknown length
34734 37159: contig of 2426 bp in length
37160 37259: gap of unknown length
37260 39230: contig of 1971 bp in length
39231 39330: gap of unknown length
39332 40642: contig of 1312 bp in length
40643 40742: gap of unknown length
40743 42739: contig of 1997 bp in length
42740 42839: gap of unknown length
42840 45245: contig of 2406 bp in length
45246 45345: gap of unknown length
45346 47083: contig of 1738 bp in length
47084 47183: gap of unknown length
47184 49945: contig of 2762 bp in length
49946 50045: gap of unknown length
50046 51544: contig of 1499 bp in length
51545 51644: gap of unknown length
51645 53891: contig of 2247 bp in length
53892 53991: gap of unknown length
53992 57221: contig of 3320 bp in length
57222 57321: gap of unknown length
57323 60016: contig of 2695 bp in length
60017 60116: gap of unknown length
60117 62563: contig of 2447 bp in length
62564 62663: gap of unknown length
62664 64926: contig of 2263 bp in length
64927 65026: gap of unknown length
65027 68373: contig of 3347 bp in length
68374 68473: gap of unknown length
68474 71700: contig of 3227 bp in length

71701 71800: gap of unknown length
71801 74355: contig of 2555 bp in length
74356 74455: gap of unknown length
74456 77266: contig of 2811 bp in length
77267 77366: gap of unknown length
77367 80106: contig of 2740 bp in length
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82864 85878: contig of 3015 bp in length
85879 85978: gap of unknown length
85979 88748: contig of 2770 bp in length
88749 88848: gap of unknown length
88849 93166: contig of 4318 bp in length
93167 93266: gap of unknown length
93267 96634: contig of 3368 bp in length
96635 96734: gap of unknown length
96735 100449: contig of 3715 bp in length
100450 100549: gap of unknown length
100550 103083: contig of 2534 bp in length
103084 103183: gap of unknown length
103184 107029: contig of 3846 bp in length
107030 107129: gap of unknown length
107130 110324: contig of 3195 bp in length
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114568 119345: contig of 4778 bp in length
119346 119445: gap of unknown length
119445 122439: contig of 2994 bp in length
122440 122539: gap of unknown length
122540 127598: contig of 5059 bp in length
127599 127698: gap of unknown length
127699 133792: contig of 6094 bp in length
133793 133893: gap of unknown length
133893 140225: contig of 6333 bp in length
140226 140325: gap of unknown length
140326 144336: contig of 4011 bp in length
144337 144436: gap of unknown length
144437 151171: contig of 6735 bp in length
151172 151271: gap of unknown length
151272 159310: contig of 8039 bp in length
159311 159410: gap of unknown length
159411 168312: contig of 8902 bp in length
168312 168412: gap of unknown length
168413 168413 184375: contig of 15963 bp in length.

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/db_xref="taxon:9606"
/chromosome="3"
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/clone="RP11-815J19"
1. 1389
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1490. 3602
/note="assembly_name:Contig37"
3703. 6147
/note="assembly_name:Contig42"
6248. 7841
/note="assembly_name:Contig45"
7942. 9569
/note="assembly_name:Contig48"
9670. 11970
/note="assembly_name:Contig50"
12071. 13209
/note="assembly_name:Contig51"
13310. 14906
/note="assembly_name:Contig52"
15007. 16915
/note="assembly_name:Contig53"
17016. 18655

Query Match 1.3%; Score 37; DB 2; Length 184375;
 Best Local Similarity 100.0%; Pred. 2.3e-09;
 Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2462 attgagaacctgtctccattgtgtgtcttctc 2498
 |||||||
 Db 158390 ATTGAGAACCTGCTCCATTGTGTGTCTTC 158426

RESULT 14
 AC027579 148270 bp DNA 1linear HTG 23-JUN-2000
 LOCUS Homo sapiens chromosome 17 clone RP11-177D1 map 17, WORKING DRAFT
 DEFINITION
 AC027579 13 unordered pieces.
 AC027579.2 GI:8671976
 VERSION
 AC027579.2
 KEYWORDS
 HTG; HTGS_PHASE1; HTGS_DRAFT.
 SOURCE
 human.
 ORGANISM
 Homo sapiens
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 148270)
 Birren,B., Linton,L., Nusbaum,C. and Lander,E.
 Homo sapiens chromosome 17, clone RP11-177D1
 Unpublished
 2 (bases 1 to 148270)
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
 Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F.,
 Boguslavskiy,L., Bouknight,B., Brown,A., Burkett,G.,
 Campolavio,A., Castle,A., Choepel,Y., Colangelo,M., Collins,S.,
 Collymore,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S.,
 Dodge,S., Domingo,M., Doyle,M., Ferreira,P., Fitzhugh,W., Gage,D.,
 Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L.,
 Grand-Pierre,N., Grant,G., Hagos,B., Heatford,A., Horton,L.,
 Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A.,
 Klein,J., Laroque,K., Lamazares,R., Landers,T., Lechoczky,J.,
 Levine,R., Lieu,C., Liu,G., Locke,K., MacDonald,P., Marquis,N.,
 McCarthy,M., McEwan,P., McGurk,A., McKernan,K., McPheeters,R.,
 Meldrum,J., Meneau,L., Mihova,T., Miranda,C., Mienga,V., Morrow,J.,
 Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
 O'Neill,D., Oliver,T.M., Oliver,J., Peterson,K., Pierre,N.,
 Pisani,C., Pollard,V., Raymond,C., Riley,R., Rogov,P., Rothman,D.,
 Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B.,
 Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
 Testafaye,S., Theodore,J., Tirrell,A., Travers,M., Triggilio,J.,
 Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J.,
 Young,G., Zainoun,J., Zimmer,A. and Zody,M.

TITLE
 JOURNAL
 COMMENT
 Submitted (30-MAR-2000) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Jun 23, 2000 this sequence version replaced gi:7342324.
 All repeats were identified using RepeatMasker:
 Smit,A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: MIBR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 Project Information
 Center project name: L9001
 Center clone name: 177_D_1
 Summary Statistics
 Sequencing vector: M13; M77815; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731
 Consensus quality: 141141 bases at least Q40
 Consensus quality: 144792 bases at least Q30
 Consensus quality: 146242 bases at least Q20
 Insert size: 151000; agarose-fp
 Insert size: 147070; sum-of-ctrls
 Quality coverage: 4.7 in Q20 bases; agarose-fp
 Quality coverage: 4.8 in Q20 bases; sum-of-ctrls

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 13 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of 'N', but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 131: contig of 131 bp in length
 132 231: gap of 100 bp
 232 4256: contig of 4025 bp in length
 4257 4356: gap of 100 bp
 4357 6715: contig of 2359 bp in length
 6716 6815: gap of 100 bp
 6816 12854: contig of 6039 bp in length
 12855 12954: gap of 100 bp
 12955 18900: contig of 5946 bp in length
 18901 19000: gap of 100 bp
 19001 27560: contig of 8560 bp in length
 27561 27660: gap of 100 bp
 27661 41935: contig of 14275 bp in length
 41936 42035: gap of 100 bp
 42036 58175: contig of 16140 bp in length
 58176 58275: gap of 100 bp
 58276 70930: contig of 12655 bp in length
 70931 71030: gap of 100 bp
 71031 87632: contig of 16602 bp in length
 87633 87732: gap of 100 bp
 87733 104759: contig of 17027 bp in length
 104760 104859: gap of 100 bp
 104860 123863: contig of 19004 bp in length
 123864 123963: gap of 100 bp
 123964 148270: contig of 24307 bp in length.

FEATURES

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 /map="17"
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 /clone_11b="RP11 Human Male BAC"
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 4357..6715
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 vector_side:right"

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misc_feature
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BASE COUNT 40333 a 32099 c 32432 g 42206 t 1200 others

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 Best Local Similarity 100.0%; Pred. No. 9,1e-09;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2462 atgaggaacctgtctccattgtgtgtcttct 2497
 |||||||||||||||||||||||||||||||||||

Db 76167 ATTGAGAACCTGTCTCCATTGTGTCTTCC 76202

RESULTS 15

AC022727

LOCUS AC022727 174405 bp DNA linear HTG 26-MAY-2000
 DEFINITION Homo sapiens chromosome 18 clone RP11-308J14 map 18, WORKING DRAFT
 SEQUENCE, 11 unordered pieces.

AC022727

AC022727.4 GI:8072614

HTG; HTGS_PHASE1; HTGS_DRAFT.

KEYWORDS

SOURCE

human.

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

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TITLE

JOURNAL

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 11 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 6450: contig of 6450 bp in length
 * 6451 6550: gap of 100 bp
 * 6551 12911: contig of 6361 bp in length
 * 12912 13011: gap of 100 bp
 * 13012 22057: contig of 9046 bp in length
 * 22058 22157: gap of 100 bp
 * 22158 32841: contig of 10684 bp in length
 * 32842 32941: gap of 100 bp
 * 32942 48367: contig of 15426 bp in length
 * 48368 48467: gap of 100 bp
 * 48468 63919: contig of 15452 bp in length
 * 63920 64019: gap of 100 bp
 * 64020 78259: contig of 14240 bp in length
 * 78260 78359: gap of 100 bp
 * 78360 98415: contig of 20056 bp in length
 * 98416 98515: gap of 100 bp
 * 98516 121876: contig of 23361 bp in length
 * 121877 121976: gap of 100 bp
 * 121977 144489: contig of 22513 bp in length
 * 144490 144589: gap of 100 bp
 * 144590 174405: contig of 29816 bp in length.

FEATURES

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/chromosome="18"

/map="18"

/clone="RP11-308J14"

/clone_lib="RP11-11 Human Male BAC"

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6551. 12911

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13012. 22057

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22158. 32841

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32942. 48367

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48468. 63919

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64020. 78259

/note="assembly-fragment"

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vector.side:right"

78360. 98415

/note="assembly-fragment"

clone.end:T7

vector.side:left"

98516. 121876

/note="assembly-fragment"

121977. 144489

/note="assembly-fragment"

144590. 174405

/note="assembly-fragment"

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ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 9e-09;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2462 atgaggaacctgtctccattgtgtgtcttct 2497
 |||||||||||||||||||||||||||||||||||

Sat May 18 14:46:05 2002

us-09-898-556a-3.rge

Page 19

Db 127497 ATTGAGAACCCTGCTTCCATTGTTGGTGTGCTTCCCT 127532

Search completed: May 17, 2002, 11:55:34
Job time: 75409 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 16, 2002, 14:43:43 ; Search time 539.13 Seconds
(without alignments)
8827.717 Million cell updates/sec

Title: US-09-898-556a-3
Perfect score: 2772
Sequence: 1 cagcgcgcttaagctggtg.....ttctaccatctacacct 2772

Scoring table:
OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1736436 seqs, 858457221 residues

Word size : 0

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

N.Geneseq_032802.*
1: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1980.DAT.*
2: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1981.DAT.*
3: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1982.DAT.*
4: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1983.DAT.*
5: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1984.DAT.*
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9: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1988.DAT.*
10: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA1989.DAT.*
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22: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA2001A.DAT.*
23: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA2001B.DAT.*
24: /net/abs06/SIDSL/gcgdata/hold-geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1577	56.9	2614	23	AA574823	DNA encoding novel
2	571	20.6	678	22	AA574823	DNA encoding novel
3	525	18.9	653	23	AA568256	DNA encoding novel
4	231	8.3	983	22	AA568256	DNA encoding novel
5	99	3.6	394	22	AA183880	Human cDNA encoding
6	69	2.5	69	22	AA513031	DNA encoding novel
7	69	2.5	69	22	AA513088	DNA encoding novel
8	49	1.8	821	23	AA568257	DNA encoding novel
9	29	1.0	800	22	AA53832	Human colon cancer

10	29	1.0	2349	23	AA590429	DNA encoding novel
11	29	1.0	3582	22	AA58664	Human polynucleoti
12	29	1.0	3582	22	AA58664	Human polynucleoti
13	28	1.0	159	22	AA100216	Human reproductive
14	27	1.0	1183	22	AA525949	Human cDNA encoding
15	27	1.0	2717	22	AA526635	Human genomic DNA
16	27	1.0	3099	20	AA64361	Human stem cell z1
17	25	0.9	51	23	AB100474	Human silent nonco
18	25	0.9	51	23	AB100878	Human amino acid c
19	25	0.9	763	22	AAK92290	Human cDNA 5'-end
20	25	0.9	763	22	AAK93811	Human cDNA 5'-end
21	25	0.9	814	22	AA195339	Human neuroblastom
22	25	0.9	871	22	ABA08823	Human PRO1847 homo
23	25	0.9	2200	22	AAK94575	Human full-length
24	23	0.8	688	22	AAK91560	Human cDNA 5'-end
25	23	0.8	688	22	AAK93129	Human cDNA clone r
26	23	0.8	1512	22	ABA50438	Human breast cell
27	23	0.8	1512	22	ABA68388	Human foetal liver
28	23	0.8	1512	22	ABA35382	Probe #13848 for g
29	23	0.8	1512	22	AAK16761	Human brain expres
30	23	0.8	1512	22	AAK42537	Human bone marrow
31	23	0.8	1512	22	AAI23284	Probe #13217 for g
32	23	0.8	1512	22	AAI48604	Probe #17290 used t
33	23	0.8	1512	22	AAI08925	Probe #8916 used t
34	23	0.8	1623	22	AAK94635	Human full-length
35	23	0.8	1665	22	ABA45305	Human breast cell
36	23	0.8	1665	22	ABA55794	Human foetal liver
37	23	0.8	1965	22	ABA25474	Probe #3940 for ge
38	23	0.8	1965	22	AAK04015	Human brain expres
39	23	0.8	1965	22	AAK29501	Human bone marrow
40	23	0.8	1965	22	AAI14072	Probe #4005 for ge
41	23	0.8	1965	22	AAI135452	Probe #4138 used t
42	23	0.8	1965	22	AAI03695	Probe #3916 used t
43	23	0.8	2634	23	AA581061	DNA encoding novel
44	22	0.8	439	22	AA67397	Novel human polyn
45	22	0.8	484	21	AA679234	Human lung tumour

ALIGNMENTS

RESULT 1
ID AAS74823 standard; cDNA; 2614 BP.
XX AAS74823:
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #10627.
XX
KW Human: chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PE 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PI (HYSE-) HYSEQ INC.
PI Dmanac RT, Liu C, Tang YT;
DR WPI: 2001-639362/73.
DR P-PSDB: ABG10636.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in

(II). (I) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pat_sequences](http://wipo.int/pub/published_pat_sequences).

Query Match	18.9%	Score	525	DB	23	Length	653
Best Local Similarity	99.8%	Pred. No.	3.3e+248				
Matches	575	Conservative	0	Mismatches	1	Indels	0
						Gaps	0

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Db	112	gatacacatcagagagacacaacatccaaaggggagaaaccttatgtgtcaagatgttgcagc	171
QY	1124	aggccttaacttggaaatgcgaacctcttacaactaagcgagacacatcaaggtctcaagc	1183
Db	172	aggccttaacttggaaatgcgaacctcttacaactaagcgagacacatcaaggtctcaagc	231
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QY	1244	gaaggcgcaaacacggggagaaagacctaatgttttcagagaaatgttgcgcttgcgca	1303
Db	292	gaaggcgcaaacacacggggagaaagacctaatgttttcagagaaatgttgcgcttgcgca	351
QY	1304	gcaatcaacacctgttcagacacaagaagagacacatcctcaaggagaaagccttaattgcag	1363
Db	352	gcaatcaacacctgttcagacacaagaagagacacatcctcaaggagaaagccttaattgcag	411
QY	1364	ggaggtgtgaaagaagcttttagccaagaatcacacatctatcgaaccttaagaagacaacac	1423
Db	412	ggaggtgtgaaagaagcttttagccaagaatcacacatctatcgaaccttaagaagacaacac	471
QY	1424	aggaagaaagccttatgtatgcacagaatgttggcgctaacctttagcttgaatcaaacct	1483
Db	472	aggaagaaagccttatgtatgcacagaatgttggcgctaacctttagcttgaatcaaacct	531
QY	1484	caaaacacacacagagagacacactcaaggggtttaaacttatgtctgcgtgcgtgcgca	1543
Db	532	caaaacacacacagagagacacactcaaggggtttaaacttatgtctgcgtgcgtgcgca	591
QY	1544	gtgcttagctgaagatcaaaccttaacaaacaca	1579
Db	592	gtgcttagctgaagatcaaaccttaacaaacaca	627

RESULT	4
AAS26286	
ID	AAS26286 standard; cDNA; 983 BP.

AC AAS26286;

DT 07-NOV-2001 (first entry)

Human CDNA encoding a novel secreted protein, Seq ID 465.

KM Human; immunosuppressive; antiarthritic; ss; antiinflammatory;
 KM cyclostatic; cardiant; vasotrophic; cerebroprotective; nootropic;
 KM neuroprotective; antibacterial; vinuclide; fungicide; ophthalmological;
 KM vulnary; secreted protein; rheumatoid arthritis;
 KM hyperproliferative disorder; cardiovascular disorder; cardiac arrest;
 KM cerebrovascular disorder; cerebral ischaemia; anglogenesis;
 KM nervous system disorder; Alzheimer's disease; infection; ocular
 KM corneal infection; wound healing; epithelial cell proliferation;
 KM skin ageing; food additive; preservative; antiproliferative.

Homo sapiens.

PN W0200155322-A2.

PD 02-AUG-2001.

PF 17-JAN-2001; 2001WO-US01341.

PR	31-JAN-2000	2000US-0179065
PR	04-FEB-2000	2000US-0180528
PR	24-FEB-2000	2000US-0184664
PR	02-MAR-2000	2000US-0186350
PR	16-MAR-2000	2000US-0189574
PR	17-MAR-2000	2000US-0190076
PR	18-MAR-2000	2000US-0190123
PR	19-MAR-2000	2000US-0205513
PR	07-JUN-2000	2000US-0209467
PR	28-JUN-2000	2000US-0214486
PR	30-JUN-2000	2000US-0215135
PR	07-JUL-2000	2000US-0216647
PR	07-JUL-2000	2000US-0216860
PR	11-JUL-2000	2000US-0217487
PR	11-JUL-2000	2000US-0217496
PR	14-JUL-2000	2000US-0218290
PR	26-JUL-2000	2000US-0220963
PR	26-JUL-2000	2000US-0220964
PR	14-AUG-2000	2000US-0225418
PR	14-AUG-2000	2000US-0225419
PR	14-AUG-2000	2000US-0225419
PR	14-AUG-2000	2000US-0225413
PR	14-AUG-2000	2000US-0225214
PR	14-AUG-2000	2000US-0225266
PR	14-AUG-2000	2000US-0225267
PR	18-AUG-2000	2000US-0226579
PR	22-AUG-2000	2000US-0226681
PR	22-AUG-2000	2000US-0226684
PR	22-AUG-2000	2000US-0227182
PR	30-AUG-2000	2000US-0227024
PR	30-AUG-2000	2000US-0228924
PR	01-SEP-2000	2000US-0229487
PR	01-SEP-2000	2000US-0229343
PR	01-SEP-2000	2000US-0229344
PR	01-SEP-2000	2000US-0229345
PR	05-SEP-2000	2000US-0229505
PR	05-SEP-2000	2000US-0229513
PR	06-SEP-2000	2000US-0230437
PR	08-SEP-2000	2000US-0230348
PR	08-SEP-2000	2000US-0231242
PR	08-SEP-2000	2000US-0231243
PR	08-SEP-2000	2000US-0231244
PR	08-SEP-2000	2000US-0231413
PR	08-SEP-2000	2000US-0231414
PR	08-SEP-2000	2000US-0232080
PR	12-SEP-2000	2000US-0232081
PR	14-SEP-2000	2000US-0231968
PR	14-SEP-2000	2000US-0232397
PR	14-SEP-2000	2000US-0232398
PR	14-SEP-2000	2000US-0233399

PR	14-SEP-2000	2000US-0232401
PR	14-SEP-2000	2000US-0233401
PR	14-SEP-2000	2000US-0233063
PR	14-SEP-2000	2000US-0233064
PR	14-SEP-2000	2000US-0233065
PR	21-SEP-2000	2000US-0234223
PR	21-SEP-2000	2000US-0234224
PR	25-SEP-2000	2000US-0234997
PR	25-SEP-2000	2000US-0234998
PR	25-SEP-2000	2000US-0234984
PR	27-SEP-2000	2000US-0235834
PR	27-SEP-2000	2000US-0235835
PR	29-SEP-2000	2000US-0236327
PR	29-SEP-2000	2000US-0236367
PR	29-SEP-2000	2000US-0236368
PR	29-SEP-2000	2000US-0236369
PR	02-OCT-2000	2000US-0236370
PR	02-OCT-2000	2000US-0236802
PR	02-OCT-2000	2000US-0237037
PR	02-OCT-2000	2000US-0237038
PR	02-OCT-2000	2000US-0237039
PR	02-OCT-2000	2000US-0237040
PR	13-OCT-2000	2000US-0239335
PR	13-OCT-2000	2000US-0239337
PR	20-OCT-2000	2000US-0240960
PR	20-OCT-2000	2000US-0241221
PR	20-OCT-2000	2000US-0241785
PR	20-OCT-2000	2000US-0241786
PR	20-OCT-2000	2000US-0241787
PR	20-OCT-2000	2000US-0241808
PR	20-OCT-2000	2000US-0241809
PR	20-OCT-2000	2000US-0241826
PR	01-NOV-2000	2000US-0244617
PR	01-NOV-2000	2000US-0244618
PR	01-NOV-2000	2000US-0244674
PR	08-NOV-2000	2000US-0246475
PR	08-NOV-2000	2000US-0246476
PR	08-NOV-2000	2000US-0246477
PR	08-NOV-2000	2000US-0246478
PR	08-NOV-2000	2000US-0246523
PR	08-NOV-2000	2000US-0246524
PR	08-NOV-2000	2000US-0246525
PR	08-NOV-2000	2000US-0246526
PR	08-NOV-2000	2000US-0246527
PR	08-NOV-2000	2000US-0246528
PR	08-NOV-2000	2000US-0246532
PR	08-NOV-2000	2000US-0246539
PR	08-NOV-2000	2000US-0246602
PR	08-NOV-2000	2000US-0246610
PR	08-NOV-2000	2000US-0246611
PR	17-NOV-2000	2000US-0246613
PR	17-NOV-2000	2000US-0249207
PR	17-NOV-2000	2000US-0249208
PR	17-NOV-2000	2000US-0249209
PR	17-NOV-2000	2000US-0249210
PR	17-NOV-2000	2000US-0249211
PR	17-NOV-2000	2000US-0249212
PR	17-NOV-2000	2000US-0249213
PR	17-NOV-2000	2000US-0249214
PR	17-NOV-2000	2000US-0249215
PR	17-NOV-2000	2000US-0249216
PR	17-NOV-2000	2000US-0249217
PR	17-NOV-2000	2000US-0249218
PR	17-NOV-2000	2000US-0249244
PR	17-NOV-2000	2000US-0249245
PR	17-NOV-2000	2000US-0249246
PR	17-NOV-2000	2000US-0249265
PR	17-NOV-2000	2000US-0249267
PR	17-NOV-2000	2000US-0249269
PR	17-NOV-2000	2000US-0249300
PR	01-DEC-2000	2000US-0250160
PR	01-DEC-2000	2000US-0250161
PR	05-DEC-2000	2000US-0251030
PR	05-DEC-2000	2000US-0251988
PR	05-DEC-2000	2000US-0256199

Query Match	8.3%	Score 231;	DB 22;	Length 983;
Best Local Similarity	99.6%;	Pred. No. 2.4e-103;		
Matches 281;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
06-DEC-2000; 2000US-0251479.				
PR 08-DEC-2000; 2000US-0251856.				
PR 08-DEC-2000; 2000US-0251868.				
PR 08-DEC-2000; 2000US-0251869.				
PR 08-DEC-2000; 2000US-0251989.				
PR 08-DEC-2000; 2000US-0251990.				
PR 11-DEC-2000; 2000US-0251097.				
PR 05-JAN-2001; 2001US-0259678.				
XX (HUMA-) HUMAN GENOME SCI INC.				
XX				
PI Rosen CA, Barrash SC, Ruben SM;				
XX				
DR WP1; 2001-488783/53.				
DR P-PSDB; AAU16299.				
XX				
PT New nucleic acid molecules encoding 461 human secreted proteins for				
PT diagnosing, preventing, treating or ameliorating medical conditions and				
PT used as food additives or preservatives -				
XX				
PS Claim 1; SEQ ID No 465; 980bp; English.				
XX				
CC The invention relates to isolated nucleic acid molecules and their				
CC encoded secreted proteins. The nucleic acids and proteins are used to				
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,				
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They				
CC are also used in diagnosing a pathological condition or susceptibility				
CC to a pathological condition. Antibodies to the proteins can also				
CC be used in alleviating symptoms associated with the disorders and in				
CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked				
CC immunosorbent assays (ELISA). Disorders which are diagnosed or treated				
CC include autoimmune diseases e.g. Rheumatoid arthritis,				
CC hyperproliferative disorders e.g. neoplasms of the breast or liver,				
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders				
CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.				
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi				
CC and ocular disorders e.g. corneal infection, and many other				
CC disorders listed in the specification. The polypeptides can also				
CC be used to aid wound healing and epithelial cell proliferation, to				
CC prevent skin aging due to sunburn, to maintain organs before				
CC transplantation, for supporting cell culture of primary tissues, to				
CC regenerate tissues and in chemotaxis. The polypeptides can also be used				
CC as a food additive or preservative to increase or decrease storage				
CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,				
CC minerals, cofactors and other nutritional components. The present				
CC sequence encodes a novel secreted protein of the invention.				
0Y 287 gaacggaggagtgatgctgcggagactatataacatctgtcttaactcgaatccatcttc 346				
Db 570 gacggaggaggatgagctcggagactataacatctgcctcactcggaaatccatcttc 629				
0Y 347 taacacaaacatcttgctcgaactcgtgagcgaggaagcgccctcgagagagagaa 406				
Db 630 taacacaaacatcttgctcgaactcgtgagcgaggaagcgccctcgagagagagaa 689				
0Y 407 atgtccactggaactctgtccagaatcgaaagcagaatcaactaagtacctctgcgc 466				
Db 690 atgtccactggaactctgtccagaatcgaaagcagaatcaactaagtacctctgcgc 749				
0Y 467 tctgattttctccagtcagcaagctcgtcggcaaatgtgtgctgagtcacatctctca 526				
Db 750 tctgattttctccagtcagcaagctcgtcggcaaatgtgtgctgagtcacatctctca 809				
0Y 527 gctgttttcaagttataggcaggaatcctctccaccctggg 568				
Db 810 gctgttttcaagttataggcaggaatcctctccaccctggg 851				

AAI3890
ID AAI3890 standard; cDNA; 394 BP.
XX
AC AAI3890;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 3950.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US04927.
XX
PR- 28-FEB-2000; 2000US-0515126.
PR 18-MAY-2000; 2000US-0577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI- Tang YT, Liu C, Drmanac RT;
XX
DR WPI: 2001-514838/56.
DR P-PSDB; AA003959.
XX
PT Isolated nucleic acids and polypeptides, useful for preventing
PT diagnosing and treating e.g. leukaemia, inflammation and immune
PT disorders -
XX
PS Claim 1; SEQ ID NO 3950; 1399pp + Sequence listing; English.
XX
CC The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC the encoded proteins (AA000010-AA013910) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 394 BP; 148 A; 75 C; 93 G; 78 T; 0 other;
SQ

Query Match 3.6%; Score 99; DB 22; Length 394;
Best Local Similarity 99.3%; Pred. No. 2.6e-38;
Matches 149; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2619 ttcacctatctgagccataaagaccagactcagctgagtgagagagaatacacc 2678
DB 1 ttcacctatctgagccataaagaccagactcagctgagtgagagagaatacacc 60
QY 2679 ctgcctgtagaggttgggagccactccctcaccctcccaactgagagctgtcttgg 2738
DB 61 ctgcctgtagaggttgggagccactccctcaccctcccaactgagagctgtcttgg 120
QY 2739 ctcaataaatactcttctaccacacctca 2768
DB 121 ctcaataaatactcttctaccacacctca 150

RESULT 6
AAS13031
ID AAS13031 standard; DNA; 69 BP.
XX
AC AAS13031;
XX
DT 17-DEC-2001 (first entry)
XX
DE DNA encoding zinc finger domain TG-ZFD-012.
XX
KW Zinc finger domain; cancer; human; ds; TG-ZFD-012.
XX
OS Homo sapiens.
XX
PN WO200160970-A2.
XX
PD 23-AUG-2001.
XX
PF 17-FEB-2001; 2001WO-KR00244.
XX
PR 18-FEB-2000; 2000KR-0007730.
XX
PA (TOOL-) TOOLGEN INC.
XX
PI Kim J, Kwon Y, Kim H, Ryu EH, Hwang MS;
XX
DR WPI: 2001-557644/62.
DR P-PSDB; AAU08514.
XX
PT Identifying a zinc finger domain for e.g. designing new polypeptides
PT that bind to a specific site on a DNA, comprises expressing hybrid
PT nucleic acids with a test zinc finger domain in cells -
XX
PS Example 22; Page 55; 147pp; English.
XX
CC The invention relates to a method of identifying a zinc finger domain
CC that recognises a target site on a DNA. The method comprises expressing
CC hybrid nucleic acids with a test zinc finger domain in cells containing a
CC reporter construct, where the reporter gene is expressed above a given
CC level when a transcription factor recognises a recruitment and a target
CC site of a promoter, and not only the recruitment site of the promoter.
CC The method is used to: (a) identify a zinc finger domain that recognises
CC a target site on a DNA; (b) determine whether a test zinc finger domain
CC recognises a target site on a promoter; (c) generate a nucleic acid that
CC encodes a chimeric zinc finger protein; and (d) identify DNA sequences
CC recognised by zinc finger domains. The method can be used to design novel
CC polypeptides that bind to a specific site on a DNA. The method can
CC facilitate the customised generation of new polypeptides that can
CC regulate the expression of a selected target e.g. a gene required by a
CC pathogen can be repressed, a gene required for cancerous growth can be
CC repressed, or a gene poorly expressed or encoding a mutated protein can
CC be activated and overexpressed. The method can be used in vivo which
CC enables identification of polypeptides that bind to a specific site on a
CC DNA in the intracellular milieu. The present sequence represents the
CC coding sequence of TG-ZFD-012 zinc finger protein which was used in
CC the method of the invention.
XX
XX Sequence 69 BP; 17 A; 16 C; 20 G; 16 T; 0 other;
SQ

Query Match 2.5%; Score 69; DB 22; Length 69;
Best Local Similarity 100.0%; Pred. No. 1.6e-23;
Matches 69; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1269 tatgtttgaggaatgtggtgtgttgcgcagcattccacactgttcagacacaag 1328
DB 1 tatgtttgaggaatgtggtgtgttgcgcagcattccacactgttcagacacaag 60
QY 1329 aggacacat 1337
DB 61 aggacacat 69

```
RESULT 7
AAS13088
ID AAS13088 standard; DNA; 69 BP.
XX
AC AAS13088;
XX
DT 17-DEC-2001 (first entry)
XX
DE DNA encoding zinc finger domain TG-ZFD-046.
XX
KW Zinc finger domain; cancer; human; ds.
XX
OS Homo sapiens.
XX
PN WO200160970-A2.
XX
PD 23-AUG-2001.
XX
PF 17-FEB-2001; 2001WO-KR00244.
XX
PR 18-FEB-2000; 2000KR-0007730.
XX
PA (TOOL-) TOOLGEN INC.
XX
PI Kim J, Kwon Y, Kim H, Ryu EH, Hwang MS;
XX
DR WPI: 2001-557644/62.
XX
P-PSDB: AAU08558.
XX
PT Identifying a zinc finger domain for e.g. designing new polypeptides
PT that bind to a specific site on a DNA, comprises expressing hybrid
PT nucleic acids with a test zinc finger domain in cells -
XX
PS Example 54; Page 69; 147pp; English.
XX
CC The invention relates to a method of identifying a zinc finger domain
CC that recognises a target site on a DNA. The method comprises expressing
CC hybrid nucleic acids with a test zinc finger domain in cells containing a
CC reporter construct, where the reporter gene is expressed above a given
CC level when a transcription factor recognises a recruitment and a target
CC site of a promoter, and not only the recruitment site of the promoter.
CC The method is used to: (a) identify a zinc finger domain that recognises
CC a target site on a DNA; (b) determine whether a test zinc finger domain
CC recognises a target site on a promoter; (c) generate a nucleic acid that
CC encodes a chimeric zinc finger protein; and (d) identify DNA sequences
CC recognised by zinc finger domains. The method can be used to design novel
CC polypeptides that bind to a specific site on a DNA. The method can
CC facilitate the customised generation of new polypeptides that can
CC regulate the expression of a selected target e.g. a gene required by a
CC pathogen can be repressed, a gene required for cancerous growth can be
CC repressed, or a gene poorly expressed or encoding a mutated protein can
CC be activated and overexpressed. The method can be used in vivo which
CC enables identification of polypeptides that bind to a specific site on a
CC DNA in the intracellular milieu. The present sequence represents the
CC coding sequence of TG-ZFD-046 zinc finger protein which was used in
CC the method of the invention.
XX
SO Sequence 69 BP; 21 A; 14 C; 18 G; 16 T; 0 other;

Query Match 2.5%; Score 69; DB 22; Length 69;
Best Local Similarity 100.0%; Pred. No. 1.6e-23;
Matches 69; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2019 tatattcagaagtgtagcgggcttagtcggaagtcacacctatcagacatcag 2078
DB 1 tatattcagaagtgtagcgggcttagtcggaagtcacacctatcagacatcag 60
OY 2079 aggaacac 2087
DB 61 aggaacac 69
```

```
RESULT 8
AAS68257
ID AAS68257 standard; CDNA; 821 BP.
XX
AC AAS68257;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #4061.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
XX
PA 23-AUG-2000; 2000US-0649167.
XX
PI (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
XX
P-PSDB: ABG04070.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
PS Claim 1; SEQ ID No 4061; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.
XX
SO Sequence 821 BP; 174 A; 234 C; 215 G; 198 T; 0 other;

Query Match 1.8%; Score 49; DB 23; Length 821;
Best Local Similarity 100.0%; Pred. No. 1.1e-13;
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 722 acaacagcagcacagtcgaaggaacacacagcagtggtgataagg 770
DB 188 acaacagcagcacagtcgaaggaacacacagcagtggtgataagg 236
```

AAH3832
ID AAH3832 standard; cDNA; 800 BP.
XX
AC AAH3832;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human colon cancer antigen encoding cDNA SEQ ID NO:88.
XX
KM Human; colon cancer; colon cancer antigen; diagnosis; detection;
KM colorectal carcinoma, ss.
XX
OS Homo sapiens.
XX
PN WO200122920-A2.
XX
PD 05-APR-2001.
XX
PF 28-SEP-2000; 2000WO-US26524.
XX
PR 29-SEP-1999; 99US-0157137.
PR 03-NOV-1999; 99US-0163280.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX
DR WPI: 2001-235357/24.
DR P-PSDB: AAG74401.
XX
PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT useful for preventing, diagnosing and/or treating colorectal cancers -
XX
PS Claim 1; Page 2813-2814; 9803pp; English.
XX
CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC cancer-associated nucleic acid molecules (N) and proteins (P), where
CC the proteins are collectively known as colon cancer antigens. The colon
CC cancer antigens have cytostatic activity and can be used in gene
CC therapy and vaccine production. N and P may be used in the prevention,
CC diagnosis and treatment of diseases associated with inappropriate P
CC expression. For example, N and P may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of P by expressing
CC inactive proteins or to supplement the patient's own production of P.
CC Additionally, N may be used to produce the colon cancer-associated Ps,
CC by inserting the nucleic acids into a host cell and culturing the cell
CC to express the proteins. N and P can be used in the prevention, diagnosis
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC and AAG77789 represent sequences used in the exemplification of the
CC present invention.
CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC missing at time of publication, meaning no sequences are present for
CC SEQ ID NO:1027 to 1052, 7921 and 7922.
XX
SQ Sequence 800 BP; 240 A; 173 C; 219 G; 166 T; 2 other;

Query Match 1.0%; Score 29; DB 22; Length 800;
Best Local Similarity 100.0%; Pred. No. 0.00079;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1659 caccagagacacactcaggaggagaagcc 1687
|||||
DB 413 caccagagacacactcaggaggagaagcc 441

RESULT 10
AAS90429
ID AAS90429 standard; cDNA; 2349 BP.
XX
AC AAS90429;
XX

DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #26233.
XX
KM Human; chromosome mapping; gene mapping; gene therapy; forensic;
KM food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
DR P-PSDB: ABG26242.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
PS Claim 1; SEQ ID NO 26233; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 2349 BP; 664 A; 547 C; 608 G; 530 T; 0 other;

Query Match 1.0%; Score 29; DB 23; Length 2349;
Best Local Similarity 100.0%; Pred. No. 0.00079;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1659 caccagagacacactcaggaggagaagcc 1687
|||||
DB 1645 caccagagacacactcaggaggagaagcc 1673

RESULT 11
AA158664
ID AA158664 standard; cDNA; 3582 BP.
XX
AC AA158664;
XX
DT 22-OCT-2001 (first entry)

xx Human polynucleotide seq ID NO 867.
KW Human; neurotic; immunosuppressant; cytostatic; gene therapy; cancer;
XX peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokine; thrombolytic; drug screening; arthritis; inflammation;
KW Leukaemia; ss.
XX
OS Homo sapiens.
XX
XX WO20015312-A1.
PN
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
PA (HXSE-) HXSEQ INC.
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI: 2001-442253/47.
DR P-PSDB: AAM39508.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
XX Claim 1; SEQ ID NO 867; 10078bp; English.XX
PS The invention relates to human nucleic acids (AA157798-AA161369) and
CS the encoded polypeptides (AAM38642-AA42213) with neurotic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
XX Sequence 3582 BP: 1024 A; 826 C; 910 G; 821 T; 1 other;

Query Match 1.0%; Score 29; DB 22; Length 3582;
Best Local Similarity 100.0%; Pred. No. 0.00078;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

Db 1487 caccagaggacactcaggggagaagcc 1515

RESULT 12
AA160450/C
ID AA160450 standard; cDNA: 3582 BP.

XX	AA160450;	
AC		
XX		
DT	22-OCT-2001 (first entry)	
XX		
DE	Human polynucleotide SEQ ID NO 4439.	
XX		
KW	Human; nootropic; immunosuppressant; cytosolic; gene therapy; cancer;	
KW	peripheral nervous system; neuropathy; central nervous system; CNS;	
KW	Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;	
KW	amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;	
KW	chemokine; thrombolytic; drug screening; arthritis; inflammation;	
KW	leukemia; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO20015312-A1.	
XX		
PD	26-JUL-2001.	
XX		
PF	26-DEC-2000; 2000WO-US34263.	
XX		
XX	21-JAN-2000; 2000US-0488725.	
PR	25-APR-2000; 2000US-0552317.	
PR	09-JUL-2000; 2000US-0598042.	
PR	19-JUL-2000; 2000US-0620312.	
PR	03-AUG-2000; 2000US-0653450.	
PR	14-SEP-2000; 2000US-0662191.	
PR	19-OCT-2000; 2000US-0693036.	
PR	29-NOV-2000; 2000US-0727344.	
XX		
PA	(HYSE-) HYSEQ INC.	
XX		
PI	Tang YF, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;	
PI	Wang J, Wang Z, Weinman T, Xu C, Xue AJ, Yang Y, Zhang J;	
PI	Zhao QA, Zhou P, Goodrich R, Drmanac RT;	
XX		
DR	WPI; 2001-442253/47.	
DR	P-PSDB; AAM41294.	
XX		
PT	Novel nucleic acids and polypeptides, useful for treating disorders	
PT	such as central nervous system injuries -	
XX		
PS	Claim 1; SEQ ID NO 4439; 10078pp; English.	
XX		
CC	The invention relates to human nucleic acids (AA157798-AA161369) and	
CC	the encoded polypeptides (AAM38642-AAM42213) with nootropic,	
CC	immunosuppressant and cytosolic activity. The polynucleotides are useful	
CC	in gene therapy. A composition containing a polypeptide or polynucleotide	
CC	of the invention may be used to treat diseases of the peripheral nervous	
CC	system, such as peripheral nervous injuries, peripheral neuropathy and	
CC	localised neuropathies and central nervous system diseases, such as	
CC	Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic	
CC	lateral sclerosis, and Shy-Drager Syndrome. Other uses include the	
CC	utilisation of the activities such as: immune system suppression,	
CC	Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic	
CC	and thrombolytic activity, cancer diagnosis and therapy, drug screening,	
CC	assays for receptor activity, arthritis and inflammation, leukaemias and	
CC	C.N.S disorders.	
CC	Note: The sequence data for this patent did not form part of the printed	
CC	specification.	
XX		
SQ	Sequence 3582 BP; 821 A; 908 C; 826 G; 1026 T; 1 other;	
XX		
QY	Query Match 1.0%; Score 29; DB 22; Length 3582;	
DB	Best Local Similarity 100.0%; Pred. No. 0.00079;	
	Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
DB	1659 caccagagacactcagggaggaagcc 1687	
	2096 CACCAGAGACACTCAGGGAGAGGCC 2068	

RESULT 13
AAL00216
ID AAL00216 standard; cDNA; 159 BP.
XX
AC AAL00216;
XX
DT 21-NOV-2001 (first entry)
XX
DE Human reproductive system related antigen cDNA SEQ ID NO: 217.
XX
KW Human; reproductive system related antigen; reproductive system disorder;
KW cancer; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN M020015320-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001MO-US01339.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 14-AUG-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0228927.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0233081.

PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239335.
PR 13-OCT-2000; 2000US-0239337.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 01-DEC-2000; 2000US-0250160.

PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-465570/50.
DR P-PSDB; AAM94246.
XX
XX
PT Isolated nucleic acid molecule encoding a reproductive system antigen
is used in preventing, treating or ameliorating a medical condition -
XX
XX
PS Claim 1; SEQ ID NO 217; 1297bp + Sequence Listing; English.
XX
XX The present invention provides the protein and coding sequences of a
CC number of human reproductive system related antigens. These can be used
CC in the prevention and treatment of reproductive system disorders,
CC including cancer. The present sequence is a coding sequence of the
CC invention.
XX
XX Sequence 159 BP; 47 A; 33 C; 47 G; 30 T; 2 other:
SO

Query Match 1.0%; Score 28; DB 22; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1659 caccagagacacactcagggaggaagc 1686
Db 18 caccagagacacactcagggaggaagc 45

RESULT 14
AAS25949
ID AAS25949 standard; cDNA; 1183 BP.
XX
AC AAS25949;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human cDNA encoding a novel secreted protein, Seq ID 128.
XX
XX Human; immunosuppressive; antiarthritic; ss; antirheumatic;
KW cytostatic; cardiant; vasotrophic; cerebroprotective; nootropic;
KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
KW vulnary; secreted protein; rheumatoid arthritis;
KW hyperproliferative disorder; cardiovascular disorder; cardiac arrest;
KW cerebrovascular disorder; cerebral ischemia; anglogenesis;
KW nervous system disorder; Alzheimer's disease; infection; ocular disorder;
KW corneal infection; wound healing; epithelial cell proliferation;
XX skin aging; food additive; preservative; antiproliferative.
XX
OS Homo sapiens.
XX
XX WO200155322-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001MO-US01341.
XX
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR

PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205151.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 14-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
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PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
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PR 06-SEP-2000; 2000US-0230437.
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PR 08-SEP-2000; 2000US-0231244.
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PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
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PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234977.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237038.

PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 01-NOV-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
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PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251070.
PR 05-DEC-2000; 2000US-0251968.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI: 2001-488783/53.
DR P-PSDB; AA015962.
XX
XX
PT New nucleic acid molecules encoding 461 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
XX used as food additives or preservatives -

PS Claim 1: SEQ ID No 128; 980pp; English.
XX
XX The invention relates to isolated nucleic acid molecules and their
CC encoded secreted proteins. The nucleic acids and proteins are used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They
CC are also used in diagnosing a pathological condition or susceptibility
CC to a pathological condition. Antibodies to the proteins can also
CC be used in alleviating symptoms associated with the disorders and in
CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked
CC immunoassay assays (ELISA). Disorders which are diagnosed or treated
CC include autoimmune diseases e.g. rheumatoid arthritis,
CC hyperproliferative disorders e.g. neoplasms of the breast or liver,
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders
CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi
CC and ocular disorders e.g. corneal infection, and many other
CC disorders listed in the specification. The polypeptides can also
CC be used to aid wound healing and epithelial cell proliferation, to
CC prevent skin aging due to sunburn, to maintain organs before
CC transplantation, for supporting cell culture of primary tissues, to
CC regenerate tissues and in chemotaxis. The polypeptides can also be used
CC as a food additive or preservative to increase or decrease storage
CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,
CC minerals, cofactors and other nutritional components. The present
CC sequence encodes a novel secreted protein of the invention.

Query Match 1.0%; Score 27; DB 22; Length 1183;
Best Local Similarity 100.0%; Pred. No. 0.0077;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2149 tcatgagaccagagagacacacag 2175
Db 961 tcatgagaccagagagacacacag 987
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|||||

RESULT 15
ID AAS26635 standard; DNA; 2717 BP.
XX
XX AAS26635;
AC
XX
XX 07-NOV-2001 (first entry)
DT
XX
XX Human genomic DNA encoding partial novel secreted protein, Seq ID 1609.
DE
XX
XX Human; immunosuppressive; antiarthritic; ds; antirheumatic;
KW cytoprotective; cardiatic; vasotropic; cerebroprotective; noctropic;
KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
KW vulnery; secreted protein; rheumatoid arthritis;
KW hyperproliferative disorder; cardiovascular disorder; cardiac arrest;
KW cerebrovascular disorder; cerebral ischaemia; angiogenesis;
KW nervous system disorder; Alzheimer's disease; infection; ocular
KW corneal infection; wound healing; epithelial cell proliferation;
KW skin ageing; food additive; preservative; antiproliferative.
XX
XX Homo sapiens.
OS
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XX WO200155322-A2.
PN
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XX 02-AUG-2001.
PD
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XX 17-JAN-2001; 2001WO-0501341.
PF
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XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180528.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.

PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
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PR 07-JUL-2000; 2000US-0216880.
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PR 14-JUL-2000; 2000US-0218290.
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PR 21-SEP-2000; 2000US-0234223.
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PR 27-SEP-2000; 2000US-0235836.
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PR 02-OCT-2000; 2000US-0236802.
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PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
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PR 20-OCT-2000; 2000US-0241786.
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PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
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PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
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PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
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PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
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PR 17-NOV-2000; 2000US-0249217.
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PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249300.
PR 17-NOV-2000; 2000US-0249309.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.

(HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-488783/53.
XX
XX
PT New nucleic acid molecules encoding 461 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -
XX
PS Disclosure; SEQ ID NO 1609; 980bp; English.
XX
XX
CC The invention relates to isolated nucleic acid molecules and their
CC encoded secreted proteins. The nucleic acids and proteins are used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They
CC are also used in diagnosing a pathological condition or susceptibility
CC to a pathological condition. Antibodies to the proteins can also

CC be used in alleviating symptoms associated with the disorders and in
CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked
CC immunosorbant assays (ELISA). Disorders which are diagnosed or treated
CC include autoimmune diseases e.g. rheumatoid arthritis,
CC hyperproliferative disorders e.g. neoplasms of the breast or liver,
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders
CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi
CC and ocular disorders e.g. corneal infection, and many other
CC disorders listed in the specification. The polypeptides can also
CC be used to aid wound healing and epithelial cell proliferation, to
CC prevent skin aging due to sunburn, to maintain organs before
CC transplantation, for supporting cell culture of primary tissues, to
CC regenerate tissues and in chemotaxis. The polypeptides can also be used
CC as a food additive or preservative to increase or decrease storage
CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,
CC minerals, cofactors and other nutritional components. The present
CC sequence is a genomic DNA encoding a partial novel secreted protein of
CC the invention.

Query Match

1.0%; Score 27; DB 22; Length 2717;

Best Local Similarity 100.0%; Pred. No. 0.0076;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2149 tcacagaccacagagacacacacag 2175

DB 962 tcacagaccacagagacacacacag 988

Search completed: May 17, 2002, 09:32:07
Job time: 67704 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 16, 2002, 13:38:43 ; Search time 3793.77 Seconds
(without alignments)
9861.842 Million cell updates/sec

Title: US-09-898-556A-3

Perfect score: 2772

Sequence: 1 cagcgccgttaagctggttg.....ttctaccatctccacct 2772

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 13736207 seqs, 674847542 residues

Word size : 0

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : EST:*

1: em_estda:*
2: em_esthum:*
3: em_estln:*
4: em_estnu:*
5: em_estrov:*
6: em_estrl:*
7: em_estro:*
8: em_hlc:*
9: gb_estl:*
10: gb_est2:*
11: gb_hlc:*
12: gb_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	721	26.0	1082	10	BM450709
2	677	24.4	1035	10	BM470740
3	585	21.1	1071	10	BE741389
4	581	21.0	590	9	AM245709
5	545	19.7	1009	10	BM449478
6	509	18.4	563	9	AI669533
7	509	18.4	535	9	AL047439
8	492	17.7	538	9	AI802142
9	482	17.4	537	9	BE220142
10	471	17.0	624	9	BE178716
11	458	16.5	512	10	BE111754
12	454	16.4	505	10	BE463501
13	449	16.2	486	9	AM401692
14	419	15.1	486	9	AV720986
15	414	14.9	613	9	AW964787
16	413	14.9	697	10	BE391140
17	405	14.6	673	10	BG928720

c 18	402	14.5	453	9	AM513018	AM513018 xE76f03.x
c 19	399	14.4	481	9	AI276016	AI276016 GW0802.x
c 20	395	14.2	451	9	AA450184	AA450184 Z42809.r
c 21	383	13.8	435	9	AI081665	AI081665 0063606.s
c 22	383	13.8	449	9	AI750087	AI750087 at35f07.x
c 23	378	13.6	455	10	BE501382	BE501382 hw31a02.x
c 24	378	13.6	728	10	BE746403	BE746403 601579525
c 25	372	13.4	424	9	AI016684	AI016684 0096605.x
c 26	372	13.4	428	9	AI440109	AI440109 t156006.x
c 27	372	13.4	458	9	AI953623	AI953623 w423603.x
c 28	366	13.2	501	9	AM140124	AM140124 UT-H-B11-
c 29	363	13.1	426	9	AI828662	AI828662 t06f04.x
c 30	355	12.8	486	9	AI650983	AI650983 wa96d07.x
c 31	351	12.7	473	10	BF476173	BF476173 naa29c11.
c 32	350	12.6	385	9	AA218658	AA218658 z996d04.r
c 33	350	12.6	500	9	AI968444	AI968444 w265d09.x
c 34	345	12.4	551	10	BE395838	BE395838 601310077
c 35	344	12.4	508	9	AI860707	AI860707 w115d12.x
c 36	343	12.4	399	9	AI289399	AI289399 gw32605.x
c 37	340	12.3	392	9	AA218659	AA218659 z996d04.s
c 38	340	12.3	395	9	AI361705	AI361705 g218f04.x
c 39	337	12.2	513	9	AW958936	AW958936 EST371006
c 40	333	12.0	794	10	BI256434	BI256434 602974454
c 41	332	12.0	383	9	AA450118	AA450118 z428e09.s
c 42	318	11.5	378	9	AA484745	AA484745 n881n06.s
c 43	315	11.4	369	9	AI159962	AI159962 q880f10.x
c 44	315	11.4	818	9	AI566746	AI566746 AL566746
c 45	312	11.3	501	10	R50617	R50617 yj57b01.r1

ALIGNMENTS

RESULT 1
BM450709 1082 bp mRNA linear EST 05-FEB-2002
LOCUS AGENCOURT_6394734 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:5494415
DEFINITION 5', mRNA sequence.

ACCESSION BM450709
VERSION
KEYWORDS
SOURCE
ORGANISM

Human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1082)
NIH-MGC <http://mgc.ncbi.nlm.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LNAK12119 row: k column: 24
High quality sequence stop: 585.
Location/Qualifiers
1. 1082

FEATURES

source

source
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5494415"
/clone_lib="NIH_MGC_67"
/tissue_type="retinoblastoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: eye; Vector: pCMV-SPO6; Site:1: NotI;
Site:2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.75 Kb. Library constructed by Life
Technologies."
BASE COUNT 298 a 261 c 292 g 226 t 5 others

ORIGIN

Query Match 26.0%; Score 721; DB 10; Length 1082;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 721; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 909 aagacaacaactgggagagacacttatactgagtgagtgagagagcttgagcgt 968
 Db 62 aagacaacaactgggagagacacttatactgagtgagtgagagagcttgagcgt 121
 QY 969 atgtcagtcctcattcaaaaaccacagacacactctgggagaaagccttatgtgcag 1028
 Db 122 atgtcagtcctcattcaaaaaccacagacacactctgggagaaagccttatgtgcag 181
 QY 1029 gaattgtggcgagagcttatactgagtgagtgagtgagtgagtgagtgagtgag 1088
 Db 182 gaattgtggcgagagcttatactgagtgagtgagtgagtgagtgagtgagtgagtgag 241
 QY 1089 ggggagaaacctatgtgtgcaagagtgagtgagtgagtgagtgagtgagtgagtgag 1148
 Db 242 ggggagaaacctatgtgtgcaagagtgagtgagtgagtgagtgagtgagtgagtgagtgag 301
 QY 1149 ttacacatcagcgagacacactcagagtgagtgagtgagtgagtgagtgagtgagtgag 1208
 Db 302 ttacacatcagcgagacacactcagagtgagtgagtgagtgagtgagtgagtgagtgagtgag 361
 QY 1209 agcttagcctgaagtcacaaacctattacccacagagggcgagacacttggggagaaagcct 1268
 Db 362 agcttagcctgaagtcacaaacctattacccacagagggcgagacacttggggagaaagcct 421
 QY 1269 tatgttcagaggaatgtgtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1328
 Db 422 tatgttcagaggaatgtgtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 481
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 QY 1569 a 1569
 Db 722 A 722

RESULT 2
 BM470740 1035 bp mRNA linear EST 05-FEB-2002
 LOCUS BM470740
 DEFINITION AGENCOURT_6475358 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:5579278
 5', mRNA sequence.
 ACCESSION BM470740
 VERSION BM470740.1 GI:18519782
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1035)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC

cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNLN)
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNLN at:
<http://image.llnl.gov>
 Plate: LNLN1235 row: k column: 23
 High quality sequence stop: 653.

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 /db_xref="taxon:9606"
 /clone_image="5579278"
 /clone_id="NIH_MGC_67"
 /tissue_type="retinoblastoma"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: eye; Vector: pCMV-SPORT6; Site_1: NCI; Site_2: Sall; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.75 kb. Library constructed by Life Technologies."

BASE COUNT 259 a 249 c 268 g 255 t 4 others
 ORIGIN

Query Match 24.4%; Score 677; DB 10; Length 1035;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 677; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1655 caagcaccagaggaagacacacacacaggaagagcatttattgtcgtgagtgagcagag 1714
 Db 25 CACGACACAGAGAGACACACCTCAGGGAGAACCATTTATGTGCTGAGTGCAGCAGG 84
 QY 1715 cttaaatgataagtcacacccatttccacaccagagacacattcaaggggaaagcctt 1774
 Db 85 CTTTAATGATTAAGTCACCCCTCATTTTCACACAGAGACACATTTCAGGGAAAGCCTTT 144
 QY 1775 tatgtgcagaggaatgtgtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1834
 Db 145 TATGTGCAGGAGAGTGTGCAGAGAGGTTTGGCAGAAAGCTTAACCTGTTAGGCAACAG 204
 QY 1835 ggcacacacagtgcccttctgtctgaggaagtgagtgagtgagtgagtgagtgagtgag 1894
 Db 205 GGCACACTCAGAGTGCCTTTGTGTGAGGAGAGTGTGCAAGCCTTTGTGCTTAAGTTAAC 264
 QY 1895 tctcaatgaacacacagagacacagcagggggaagcctcaatgtgtgaggaagtgag 1954
 Db 265 TCTCATTTAAACACAGAGAGACACAGCAGGGGGAAGCCTCATGTGTGACAGGAGTGGG 324
 QY 1955 gcaagagccttagcggagtgac 2014
 Db 325 GCAAGGCTTTAGCCGGAGTGCACACTCATTAGACACAGAGAGACATTGAGAGAGAA 384
 QY 2015 gacctatacttgcagaaagtgagcaggggctttagtcggaagtcacacacacacacacac 2074
 Db 385 GCCTTATATTTGCAGAAAGTGTGAGCGGGCTTAGTGTGGAAGTCAACCTTATCAGACGA 444
 Db 445 TCAGAGGACACACACAGATGAAACTTATGTATAGGAGGAGTGTACAGCCTTTAG 504
 QY 2135 ccaggaatcattacttcac 2194
 Db 505 CCAGGAGTCATCTTCACAGACACACAGAGACACACACACACACACACACACACACACACAC 564
 QY 2195 attcctgataccaagtgagagacatctgtgtgtatgataaggaatgtgtacagccttag 2254
 Db 565 ATTGCTGATATCAAAAGTGGAGACATTCTGTGTGATTAAGCATGAGACTGACTGCTA 624


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QY 2255 agactgtatccatccacacagagaatgtgtgctcatttccagagccctgcc 2314
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Db 625 AGATTGTATCTCATTCACATCGAAGAGAAATTCCTGGCTCATTTTCAGAGACCCCTGCC 684

QY 2315 ttccctcactgtgagtgg 2331
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Db 685 TTCCTCACTGTGATGG 701

RESULT 3
BE741389 1071 bp mRNA linear EST 15-SEP-2000
LOCUS 601594255F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948468 5',
DEFINITION mRNA sequence.
ACCESSION BE741389.1 GI:10155381
VERSION BE741389.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 1071)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: DCTD/DTF
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LICM611 row: m column: 13
High quality sequence stop: 783.
Location/Qualifiers
1. 1071
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_1db="NIH_MGC_9"
/tissue_type="adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: ovary; Vector: pORF7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCAAGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
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BASE COUNT 287 a 233 c 293 g 257 t 1 others
ORIGIN
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Query Match 21.1%; Score 585; DB 10; Length 1071;
Best Local Similarity 99.8%; Pred. No. 7.5e-297;
Matches 635; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1678 gggaggaagccattgtatgtcgtgctgtgagagagcttaataatagatccacccca 1737
|||||
Db 36 GGGAGAAAGCCATTGTGTATGTCTGAGTGTGACAGAGCTTTATATATATAGTCCACCTCA 95

QY 1738 tttaacacagagacacatcagggggaagccctttatgtcagggagtgtgacaga 1797
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Db 96 TTTCACACACAGAGACACATTCAGGGGAAAGCCTTTATGTGACGAGAGTGTGACAGAA 155

QY 1798 ggttcggcaagcctaactgttttagcagaagggcagccactcaggtccttctgt 1857
|||||
Db 156 GGTTCGGCAGAGCCCTTAACCTGTTTAGCACAAGGGGACACCTCAGGTGCTCTTTGTGT 215

QY 1858 gcaaggagtgtggtgcaaggtcttctgtaagtaactcattcaaacacagagagcac 1917
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Db 216 GCAGGAGTGTGGGCAAGGCTTTGTCTAAGTTAACTTCATTAACACACAGAGACAC 275
|||||
QY 1918 acgagagggggaagccctcattgtgtcagggagtgtggcaagccttagccgagtcac 1977
|||||
Db 276 ACGCAGGGGGGAAGCCCTCATGTGTGACAGGGAGTGTGGCAAGGCTTATAGCCGGAGTCAC 335

QY 1978 accctatagacacacagagacacatcagagagaagcccttatcttgcagaagtgtg 2037
|||||
Db 336 ACCTCATTTAGACACACAGAGACACATTCAGAGAGAAAGCCCTTATATTTGCAAGAAAGTGTG 395

QY 2038 gaacgggctttagtcggaagtcacacactatcagacatcagagacacacactcagataga 2097
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Db 396 GACGGGCGCTTTAGTCGGAAGTCACAACTTATACAGACATCAGAGACACACTCAGAGATAGA 455

QY 2098 aacttatgtatagaggaaatgtgtcagacgtttagccaggaatcactacttctagac 2157
|||||
Db 456 AACTTTATGTGTATAGGAAAGTGTGTACAGGCTTTAGCCAGAGCTCATCTTCAATCAGAC 515

QY 2158 accagagacacacacagctgtgtgcttctcagccattgctatagatacacaagtggaga 2217
|||||
Db 516 ACCAGAGGACACACACAGTGTGTGTGCTTTTCAGCCATTGCTATACCAAGTGGAGA 575

QY 2218 catctgtgtgtatgatgatgatgacgtacgtgtgtaagactgtatccatccacactg 2277
|||||
Db 576 CATCTGTGTGTGATTTATGATGATGAGACTGTACTGTGTAAGACTGTATCTCATTCACACTG 635

QY 2278 aagagaaatgtgtgtcatttcaaggagccctgcc 2313
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Db 636 AAGGAGAAATTCCTGCTCATTTTCAGGAGGCCCTGCC 671
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```

RESULT 4
LOCUS AN245709 590 bp mRNA linear EST 07-JAN-2000
DEFINITION 2823003.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823003 5',
LOCUS mRNA sequence.
ACCESSION AN245709
VERSION AN245709.1 GI:6588702
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
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REFERENCE 1 (bases 1 to 590)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Other-ESTs: 2823003.3prime
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
```

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Tissue Procurement: DCTD/DTF cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LLNL) DNA Sequencing by: Berkeley MGC sequencing
project clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbip/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
trimming: cross-match from University of Washington Genome Center
PHRAP suite. Poly-T identification: patMatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu
Plate: LICM10 row: 0 column: 4
High quality sequence stop: 582.
Location/Qualifiers
1. 590
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FEATURES
source
1. 590
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_1db="NIH_MGC_7"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
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/note="Organ: lung; Vector: pOTB7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 192 a 127 c 161 g 110 t

ORIGIN

Query Match 21.0%; Score 581; DB 9; Length 590;
Best Local Similarity 100.0%; Pred. No. 8/7e-295;
Matches 581; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 544 gggcgggaatctctccctcgggaaacactatccagaagaatcaagaacacagcag 603
|||||
DB 10 GGGCAGGAATCCTCTCCCTGGGAAACACTATCCAAAGATCGAAACACAGCAG 69
OY 604 atccattctgcttagtggaagaagcagaatgattcaagaaggagaagactccagactcc 663
|||||
DB 70 ATCCATTCTGCTTGTAGTGCAAGCAGATGATTCAAGAGGAGAGACTCCAGACTCC 129
OY 664 ttttgggagagtaagcaaaaatggcaactcaaggcacttccagcccaactgaagaac 723
|||||
DB 130 TTTTGGGAGACTTAAGCAAAATGGCAGCTTCAAGGCACTTCCAGCCCTCGAAGAAC 189
OY 724 aacagccacacagctcccaaggagaacacacagtggtgataagaagtcacccctgaac 783
|||||
DB 190 AACAGCCACAGTCACAGACAGAACACACAGTGTGATTAAGGTCACCCCTGAAC 249
OY 784 ggaaggcagatctagaagaacacagaacaaatgtcatgtttagaagctcaggaattg 843
|||||
DB 250 GGAGGCGAGATCTAGAGAAACAGCAAAATGTCATGCTTTAGAACTCAGATTTG 309
OY 844 gagaatacaataataagaaggttggcagagcttatacagaagatcaaaactccttagcc 903
|||||
DB 310 GGAATATCAAAATATAGAGGTTGGCCAGGCTTATCAAGAGATCAAACTCTTATAGCC 369
OY 904 tccagaagaacacaaactggggagagacacactatagtaagtggggagacagcttg 963
|||||
DB 370 TCCAAAGACACAAACTGGGGAGACACTTACATGTACCTAGTGGGAGACAGCTTG 429
OY 964 gcaatgtcagctctcatcaaaaaacccaaggacacactctgaggggaaagccttattgt 1023
|||||
DB 430 GCAGATGTCAGTCTCATCAAAAACCCAGACACACTCTGGGGAAAGCCTTATGTGT 489
OY 1024 gcaaggaaatgtggcgaagcttactgtgaagtaacactgtatcacatcagaagacac 1083
|||||
DB 490 GCAGGGAATGTGGGAGGCTTACGTGGAAGTCAAACTGTATCAACATCAGAGGACAC 549
OY 1084 actcagggagaacacttatgtgtcaagaagtgtgagcga 1124
|||||
DB 550 ACTCAGGGGAGAAACCTTATGTGTGCAAGATTTGTGACGA 590

RESULT 5
BM449478 1009 bp mRNA linear EST 05-FEB-2002
LOCUS BM449478
DEFINITION AGENCOURT_6401009 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:5493685
5', mRNA sequence.
ACCESSION BM449478
VERSION BM449478.1 GI:18498518
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1009)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNM at:
http://image.llnl.gov
Plate: LLM12117 row: m column: 14
High quality sequence stop: 649.

FEATURES
source
Location/Qualifiers
1..1009
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5493685"
/clone_1ib="NIH.MGC.67"
/tissue_type="retinoblastoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: eye; Vector: pCMV-Sport6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: oligo dt. Average insert size 1.75 kb. Library constructed by Life Technologies."

BASE COUNT 269 a 235 c 259 g 224 t 2 others

ORIGIN

Query Match 19.7%; Score 545; DB 10; Length 1009;
Best Local Similarity 99.8%; Pred. No. 9.4e-276;
Matches 595; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 206 ggcgtctgagcatcagaagatgctgtgtactaccacagagagtgaggtgtc 265
|||||
DB 196 GCGCTTCGTGGCATTCAGGAGATGCTGTACTTCAACCCAGAGAGTGAGGCTTGT 255
OY 266 gagccctgctcagaagaccctgcagaggaggtgctgtgagacttaaccatctgt 325
|||||
DB 256 GAGCCCTCTCGAGAGACCTGACAGAGAGGTGATGCTGAGACTTAAACCATCTGT 315.
OY 326 ctccatggaattccatctctcaaaccaaaactctgctcagctggaagcgaaggagc 385
|||||
DB 316 CTCACCTGGAATTCATCTCTTAAACCAAACTCATTTGCTCAGCTGAGACGAGGAAAC 375
OY 386 gccctgagagagagaaatgtccactggaacctgtgccagaatcgaagcagaat 445
|||||
DB 376 GCCCTGAGAGAGAGAGAAATGTCCACTGGACCTCTGTCCAGATGGAAGCCAGAAAT 435
OY 446 tcaacttagtccctcctccctcctgattttccagtaagaagctcgaagcaacatgt 505
|||||
DB 436 TCAACTTAGTCCCTCTGCTGCTGATTTTTCAGTCAAGCTCTCAGCAACATGT 495
OY 506 gtgagtagtcatctctcagcgtgttccaagttatcgggcaggaatcctctcacct 565
|||||
DB 496 GTGGCTGAGTATCTCTCTCAAGCTGTTTCAAGTTATGGGAGGAATTCCTCACCT 555
OY 566 gggaaacacatctcagaagaatcagaacaacagcagaatccatctgctttagtgcaa 625
|||||
DB 556 GGGAAACACATCTCCAGAAAGATCAGAAACACAGCAGATCATCTCTTATGCGCAA 615
OY 626 agcagaatgagatcagaaggaggaagactcagactcctgtttgggaagtaagaanaaa 685
|||||
DB 616 AGCAGAATGATTCAGAGGGGAGAGACTCCGACTCTCTGTTGGAGAGTAAGCAAAA 675
OY 686 tggcacttcaaaagcacttccagccacactgaagaacaacagcagcagctcgaaga 745
|||||
DB 676 TGGCATTCAAAAGCATCTTCCAGCCACTGTAABAACACAGCAGCATCTCAAGA 735
OY 746 agacacacagtggtgataataggttccagccctgaagcgaaggagacttagagg 801
|||||
DB 736 AGACNACAGAGTGTGATATAGGTCAGCCCTGAAGGAGGAGAGATCTTAGAGG 791

RESULT 6

LOCUS	AI669533	563 bp	mRNA	linear	EST 14-MAY-1999
DEFINITION	wb88h09.x1 NCI_CGAP_Pr28 Homo sapiens CDNA clone IMAGE:2312801 3',				
ACCESSION	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.				
VERSION	AI669533				
KEYWORDS	AI669533.1 GI:4834307				
SOURCE	EST.				
ORGANISM	human.				
REFERENCE	Homo sapiens				
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
TITLE	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.				
JOURNAL	1 (bases 1 to 563)				
COMMENT	NCI_CGAP http://www.ncbi.nlm.nih.gov/ncicgap .				
	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),				
	Tumor Gene Index				
	Unpublished (1997)				
	Contact: Robert Strausberg, Ph.D.				
	Email: cgaps-remail.nih.gov				
	Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.				
	Emmert-Buck, M.D., Ph.D.				
	CDNA Library Preparation: M. Bento Soares, Ph.D.				
	CDNA Library Arrayed by: Greg Lennon, Ph.D.				
	DNA sequencing by: Washington University Genome Sequencing Center				
	clone distribution: NCI-CGAP clone distribution information can be				
	found through the I.M.A.G.E. Consortium/LENI at:				
	www.bio.livl.gov/bdnp/image/image.html				
	Seq primer: -400P from G1bco				
	High quality sequence stop: 454.				
FEATURES	Location/Qualifiers				
source	1..563				
	/organism="Homo sapiens"				
	/db_xref="taxon:9606"				
	/clone="IMAGE:2312801"				
	/clone_lib="NCI_CGAP_Pr28"				
	/sex="male"				
	/dex_stage="adult"				
	/lab_host="DH10B"				
	/note="Organ: prostate; Vector: pT73D-Pac (Pharmacia)				
	with a modified polylinker; Plasmid DNA from the				
	normalized library NCI_CGAP_Pr22 was prepared, and ss				
	circles were made in vitro. Following HAP purification,				
	this DNA was used as tracer in a subtractive hybridization				
	reaction. The driver was PCR-amplified cDNAs from a pool				
	of 5,000 clones made from the same library (clones				
	985608-986759, 1101192-1101959, and 1217928-1220615).				
	Subtraction by Bento Soares and M. Fatima Bonaldo."				
BASE COUNT	162 a 125 c 150 g 126 t				
ORIGIN					
Query Match	18.4%; Score 510; DB 9; Length 563;				
Best Local Similarity	99.8%; Pred. No. 2.5e-257;				
Matches 560; Conservative	0; Mismatches 1; Indels 0; Gaps 0;				
2212	tgagacattctgtgtgattatgcatgacatgacgtctgtgtaagaacttgatctc	2271			
563	TGGAACATCTCTGTGTGATTCATGCACGACACTGTCTGTAAAGACTGTATCTCAATC	504			
2272	caccggaagggaatctgtctcctcaatttcaggagccctgcctccctccacgtgatg	2331			
503	CACCTGAAGAGAAATGCTGGCTCTCAATTTTCAGAGACCCCTGCCCTTCTCAGCTGTGATGG	444			
2332	tgagttctggaacaccggtcaggtatgatagtgacagagagcaagtcacaaatgccag	2391			
443	TGGGTTGGTGAACACCCGGTCAAGGTATGATGATGTCAGAGGACATCAATGCCAGGCA	384			
2392	gataagggatgggtacatctgtgtgtaaaccaaccttaagctgaagacagatccggc	2451			
383	GATAGGGGTGGGTACTCTGTGTGAACCCCAACCTTAAGCTGAAGACAGTCCCGGCTAATTC	324			
2452	ctcacatcgaatctggaacactgtctccatcttggtgtgctcttcctccgatgatcc	2511			
323	CTCATCTGTAATTTGAACCTGTCTTCCATTGTTGCTCTTCTCCGATTGATGCCAA	264			

QY	2512	cccttcacccttcttaagctataaccgcccctttcccaattggcttttttaacagcgtgccc	2571
Db	263	cccttcacccttcttaagctataaccgcccctttcccaattggcttttttaacagcgtgccc	204
QY	2572	accctttagctggtgctcttgatcactatcacaaatcaagtaacgltatccctattctg	2631
Db	203	acccttttagctggtgctcttgatcactatcacaaatcaagtaacgltatccctattctg	144
QY	2632	agccacataaagaaccagaactcagctcagtgagggagagaataacacctgctgtgagagt	2691
Db	143	agccacataaagaaccagaactcagctcagtgagggagagaataacacctgctgaggagt	84
QY	2692	tggggagacaccccccgcgaacccctcctcctcagcagagagcgtctctttgctcaataaattc	2751
Db	83	tggggagacaccccccgcgaacccctcctcctcagcagagagcgtctctttgctcaataaattc	24
QY	2752	ttttaccacatcctcaacct	2772
Db	23	ttttaccacatcctcaacct	3
RESULT	7		
AL047439		535 bp	linear
LOCUS			EST 29-FEB-2000
DEFINITION	AL047439	DKFZp586i0320_r1 586 (synonym: hutel) Homo sapiens cDNA clone.	
ACCESSION	AL047439	DKFZp586i0320, mRNA sequence.	
VERSION	AL047439.1	GI:4727354	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	1 (bases 1 to 535)		
TITLE	Wambutt, R., Heubner, D., Mewes, H.W., Gassenhuber, J. and Wiemann, S.		
JOURNAL	EST (Wambutt, et al.)		
COMMENT	Unpublished (1999)		
	Contact: Wambutt R		
	MIPS		
	Am Klopferspitz 18a D-82152 Martinsried, Germany		
	This is the 5' sequence of the clone insert		
	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer		
	Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;		
	sequenced by AGOWA (Berlin/Germany) within the cDNA sequencing		
	consortium of the German Genome Project.		
	No 5' sequence available.		
	This clone (DKFZp586i0320) is available at the RZPD in Berlin.		
	Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059		
	Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.		
FEATURES			
source	location/Qualifiers		
	1..535		
	/organism="Homo sapiens"		
	/db_xref="taxon:9606"		
	/clone="DKFZp586i0320"		
	/clone_id="586 (synonym: hutel)"		
	/tissue_type="uterus"		
	/dev_stage="adult"		
	/lab_host="DH10B"		
	/note="Vector: pSPORT1; Site_1: NotI; Site_2: SalI/MluI"		
BASE COUNT	159 a 128 c 143 g 105 t		
ORIGIN			
Query Match	18.4%;	Score 509;	DB 9;
Best Local Similarity	100.0%;	Pred. NO. 8.2e-257;	Length 535;
Matches 509;	Conservative 0;	Mismatches 0;	Indels 0;
		Gaps 0;	
QY	1071	catcagagacacactcagggaggaacacttatgtctcaagattgtgacagagcttt	1130
Db	1	catcagagacacactcagggaggaacacttatgtctcaagattgtgacagagcttt	60
QY	1131	acttgagagtcgaacctttacacatacagcgacacacactcagggctcaagcctattgtg	1190

|||||
Db 61 ACTGGAATCCAGACTCTTTACATTCAGCGACACTCAGGCTCAAGCCTTATGTG 120
Qy 1191 tcaagaagatgtgagcagacttagcctgaagtcacaacctatccaccagagagc 1250
Db 121 TCGAAGGATGTGGCAGAGCTTACCTGAAGTCAAACTATTACCCACAGAGGGG 180
Qy 1251 cagcagcggggaagcctatgtttgcaggaagtgtggcgtggtcttcgcagcatca 1310
Db 181 CACACTGGGGAGAAAGCCTTATGTTCAGGGAATGTGGCGCTTTCGCCAGCATTTCA 240
Qy 1311 caccctgtcagacacaagaaggagacacattcagagagaagccttacatttcagagagtg 1370
Db 241 CACCTGTGTAGACACAGAGGACACTTACAGAGAACCTTACATTTCAGAGGAGTGT 300
Qy 1371 gagcaagccttagcagaagtcacacccatcacagacacttaaggacacacagagag 1430
Db 301 GAGCAAGGCTTAGCCAGAAATGTGGCGCTCACTTAACTTAAGGACACAGAGAGG 360
Qy 1431 aagccttatgtatgcacagaaatgtggcgctcaacttagctggaatcaaacctcaaca 1490
Db 361 AAGCCTTATGTATGACACAAATGTGGCGCTCACTTAACTTAAGGACACAGAGAGG 420
Qy 1491 caccagaagacacactcaaggggttaacctatgtctgctgagtgcgagagtgctt 1550
Db 421 CACCAAGAGACACTCAGAGGGTTAACTTATGTCTGCTGGAGTGCAGGAGTGTCTT 480
Qy 1551 agcctgaagtcacaaccttaacaacacaca 1579
Db 481 AGCCTGAAGTCAAACTTAAACACCA 509
RESULT 8
AI802142/c 558 bp mRNA linear EST 16-DEC-1999
LOCUS tx30c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2271080 3',
DEFINITION mRNA sequence.
ACCESSION AI802142
VERSION AI802142.1 GI:5367614
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 558)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: rgabbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LML at:
www-bio.lml.gov/bdrip/image/image.html
Insert length: 771 Std Error: 0.00
Seq primer: -40UP from Glbco
High quality sequence stop: 455.
Location/Qualifiers
1. 558
FEATURES
SOURCE /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2271080"
/clone_id="NCI_CGAP_Lu24"
/tissue_type="carcinoid"
/lab_host="DH10B"
/note="Organ: lung; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker; Plasmid: DNA from the normalised
library NCI_CGAP_Lu24 was prepared, and ss circles were

made in vitro. Following HAP purification, this DNA was
used as tracer in a subtractive hybridization reaction.
The driver was PCR-amplified cDNAs from a pool of 5,000
clones made from the same library (clones
141920-1417991 and 1520904-152249). Subtraction by Bento
Soares and M. Fatima Bonaldo.
BASE COUNT 161 a 123 c 148 g 126 t
ORIGIN
Query Match 17.7%; Score 492; DB 9; Length 558;
Best Local Similarity 99.8%; Pred. NO. 7.7e-248;
Matches 542; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 2216 gacattctgtgtgtatattatgatagactgactgtgaagactgtatctccatccac 2275
Db 558 GACATTCTGTGTGATATTATGATGATGAGACTGTACTGTGAAGCTGTATCTCCATCCAC 499
Qy 2276 tgaagagaattgtctgtctcaatttcagagagccctgcctccctactgtgtgaatgtgg 2335
Db 498 TGAAGAGAAATTGCTGTGCTCATTTTCAGAGAGCCCTGCCCTTCCTCATGTGATGTGGG 439
Qy 2336 ttgtgtgaaacccggtcaggtatgaatgtatgtgagagagcagtcacaaatgccagagata 2395
Db 438 TTGTGGAACCCGGTCAAGTAATGATGAGTGCAGAGGAGTCAAAATCCCAAGCAGATA 379
Qy 2396 ggggtgtgtacctgtgtgaacccacacttaagcctgaagacagtcctccggtctaaatccca 2455
Db 378 GGGGTGTGTACTGTGTGAACCCACCTTAAAGCTGAAGACAGTCCGGCTAAATCCCTCA 319
Qy 2456 taatgaattgaagaacctgtctccattgtgtgtcttcctccgattgtatccaaacct 2515
Db 318 TACTGAATTGAGAACTCTCTCCATTTGGTGTGCTTCCCTCCCATTTGAATCCCAACCT 259
Qy 2516 tcaactatcttaacgataacccctccctccctcaattgtgttttaacgtctgtgcccact 2575
Db 258 TCACCTATTTTACGATACCTGACCCTTCTCTAATTTGTTTACACCTGTGCCACCT 199
Qy 2576 ttgagtggtgctcttgataacttaacaatcagtcgaagtgatlatccctatctgaagc 2635
Db 198 TTTGAGTGTGCTGCTTGTGATACCTTAACAATCAGTCAAGCTATTTCCCTATTTCGAGCC 139
Qy 2636 cataaagaaccagacactcagctcagtgagtgagagaagaacacccctgtctgtgaggttgg 2695
Db 138 CATAAAGACCCAGACACTGAGCTGAGGAGAGAAATCACCCCTGCTGTGGGGTTGGG 79
Qy 2696 gaccactccctgcagacccctccactcagtagagcgtgtctttgtcctaataatcttt 2755
Db 78 GACCACCTCCCTGACATCCCTCTCCACTGAGAGCTGTCTTTTGTCAATTAATTTCTTT 19
Qy 2756 cta 2758
Db 18 CTA 16
RESULT 9
BE220142 537 bp mRNA linear EST 03-JUN-2000
LOCUS BE220142/c
DEFINITION hv67f07.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3178501 3',
ACCESSION BE220142
VERSION BE220142.1 GI:8907460
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 537)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.

Email: c9apbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL, send email to: info@image.lnl.gov

Seq primer: -40UP from GIDCO
High quality sequence stop: 450.

FEATURES
source

1. .537
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3178501"
/clone_id="NCI-CGAP_Lu24"
/issue_type="carcinoid"
/lab_host="DH108"
/note="Organ: Lung; Vector: pT73D-Pac (Pharmacia) with a modified polylinker. Plasmid DNA from the normalized library NCI-CGAP_Lu5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneids 1414920-1417991 and 1520904-1522439). Subtraction by Bento Soares and M. Fatima Bonalido."

BASE COUNT 150 a 118 c 144 g 125 t
ORIGIN

Query Match 17.4% Score 482; DB 9; Length 537;

Best Local Similarity 99.88; Pred. No. 1.4e-242; Mismatches 1; Indels 0; Gaps 0;

Matches 532; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2236 gcatgagactgtactgtgaagactgtatctccatccactgaagagaatgtctgtc 2295

Db 537 GCATGAGACTGTACTGTGAAGACTGTATCTCCATCCACCTGAAGAGAAATGCTGGCTC 478

2236 attttcagaagccctgtcccttccctactgtgagtggtgtgttgaaaccggtcaagt 2355

Db 477 ATTTTCAGAGACCCCTGCTTCCTCCTCATCTGTGATGCTGGTGTGAAACCCGCTCAGGT 418

2356 aatgtagtgcagagagcaatcaatgccagagagataggggtgtactgtgtgaa 2415

Db 417 AATGATAGTGGCAGAGGAGTCAATGCCAGGAGATAGGGGTGAGTCTGTGTGAAA 358

2416 cccaacttaagctgaagacagctcccgctaaatccatcatatgaattgaagacctgtc 2475

Db 357 CCCAACCTTAAAGCTGAAGACAGTCCCGGCTAAATCCTCATATCTGAATTGAGAACCTGTTC 298

2476 ttcccatlgtgtgtcttctcctcgattgatcccaacccttaactatttaagtatacc 2535

Db 297 TTCCCATTTGCTGTCTTCTCCCATTCATCCCAACCTTCACCTATTATTACGTATAC 238

2536 tgccttccctcaattgttttaacactgtctgtgcccacctttgtgtgtgtgtgtat 2595

Db 237 TGCCCTTTCTTATTTGTTTACACTGCTGTGCCACCTTTTGATGTGTGCTTTGCAAT 178

2596 acttaacaatcagtcacagtgatccctcatctcgaagcccaataaagaccagactcag 2655

Db 177 ACTTCAATATCATGATCAAGTGTATTCCTCATTTCTGAGGCCCTATAAAGCCAGACTCAG 118

2656 ctgcaagtgaagagaataacacccctgtctgtgaggtgtgggagcaactccctgtcaacct 2715

Db 117 CTGCAGTAGAGAGAAATACACCTGCTGTGGGGGTGGGGAGCCACTCCTCTCATCTCCCT 58

2716 ctccactagagctgtcttctgtcctaataatcttttaccacatcctca 2768

Db 57 CTCACATGAGAGCTGTCTTTGCTCAATAAATTTCTTTTACCCATCTCTCA 5

RESULT 10

BE178716

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

COMMENT

FEATURES

source

1. .624
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_id="HT0606"
/dev_stage="Adult"
/note="Organ: head/neck; Vector: puc18; Site: 1; Sma1; Site: 2; Sma1; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT 168 a 137 c 177 g 122 t
ORIGIN

Query Match 17.0% Score 471; DB 9; Length 624;

Best Local Similarity 99.7% Pred. No. 9.4e-237;

Matches 571; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

734 acagtcacgaagaagaacacacagtgatgataaggtcagccctgaagagagcaga 793

Db 9 ACAGTCCAGGAAGAACACACAGTGTGATGTAGGCTCCACCTGAAAGGAGGAGCA 68

794 tctagaaggaagaagaagaatgttcagtgattagaagtcaggaattgtgagaatcaa 853

Db 69 TCTAAGAGGAACAGAACAAAGTATGATGATGTTAGAGTCTCAGGATTTGGAGAAATCAA 128

854 atataagaagtttggccagagcttatacaagagatcaaacctccttagcctcaagaagac 913

Db 129 ATATGAAGAGTTTGGGCCAGGCTTTATCAAGAGTCAAAACCTCTTAGCCTCAGAAAGAC 188

914 acaaacctgggagacacacttatactacactgtagtgtgggagagacagcttggcagtatgtc 973

Db 189 ACAAACTGGGAGACACCTTATCATGTACAGTGTGGGAGAGACAGCTTTGGCAGATATGTC 248

FEATURES
source
Location/Qualifiers
1. 505
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:318343"
/clone_lib="NCI_CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneids 1322376-1323911, 1456007-1456775, and M. 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 142 a 110 c 140 g 113 t
ORIGIN

Query Match 16.4%; Score 454; DB 10; Length 505;
Best Local Similarity 99.8%; Pred. No. 8,4e-228;
Matches 504; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2263 atctccatccactggaagaattgctgctcatcttcaggagacccctgcctcctcac 2322
|||||
DB 505 ATCTCCATCCACTGAAAGGAATGCTGCTCATTTTCAGAGACCTGCCCTTCTCC 446
|||||
QY 2323 tctgagatgctggttctggaaccggtcagtaatgatagtgacagagacagcaaat 2382
|||||
DB 445 TGTGAGATGCTGGGTGTGGAACCGGTGATGATGATGATGATGATGATGATGAT 386
|||||
QY 2383 gcccaaggcagatagggtgtgtactgtgtgaaccaacttaagctgaagacagtc 2442
|||||
DB 385 GCCCAGGCAATAGGGGTGGGTGCTGCTGTAACCACTTAAGCTGAAGACAGTCC 326
|||||
QY 2443 ggtctaaatccatctgaaattgaaacctgtctccattgtgtgcttccctcc 2502
|||||
DB 325 GGGTAAATCTCTACATGGAATGGAACCTGTCTTCCCATTTGGTGTGCTTCCGAT 266
|||||
QY 2503 tgatcccaaccttcacacttattacgtataccctgccccttcctaatgttttaca 2562
|||||
DB 265 TGAATCCCAACCTTCACCTAATTTACGTATACCTGCCCTTCCATATGGTTTAC 206
|||||
QY 2563 gctgtgccacacctttgagtggtgcttgcatacttaacaatcagtcacgtat 2622
|||||
DB 205 GCTGTGCCACCTTTGAGTGTGCTGCTTGCATCTTACAAATCAGTCAAGTAT 146
|||||
QY 2623 cctatcttgagccataaagaaccagatcagctgagtgagagagaagaatcacct 2682
|||||
DB 145 CCAATTTGTGAGCCATTAAGAGACCCAGACTGAGTGCAGTGAAGAGAAATCA 86
|||||
QY 2683 tctgagagcttggaggaaccacccctgcataccctcctccacagagagctgt 2742
|||||
DB 85 TGTGGGGGTGTGGGGACCACTCCCTGCATCCCTCTCCACAGAGAGCTGTCTT 26
|||||
QY 2743 ataanaatcttctaccacatcctc 2767
|||||
DB 25 ATAAATTTCTTTCTACCACTCC 1

RESULT 13
AM401692 486 bp mRNA linear EST 16-FEB-2000
LOCUS UI-HR-BKO-aaf-c-03-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone
DEFINITION IMAGE:3053549 5', mRNA sequence.
ACCESSION AM401692
VERSION AM401692.1 GI:6920378
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: M.B. Soares Lab
CDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/dbp/image/image.html
Seq primer: M13 forward.

FEATURES
source
Location/Qualifiers
1. 486
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3053549"
/clone_lib="NIH_MGC_36"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/cell_line="MGC85"
/lab_host="DH10B (LTI)"
/note="Vector: pT73-Pac; Site_1: NotI; Site_2: Eco RI; Constructed from size fractionated cytoplasmic mRNA (0.5-1.5kb). Directionally cloned. Cells provided by Louis M. Staudt, Ph.D. Library preparation by Maria de Fatima Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 138 a 113 c 136 g 98 t 1 others
ORIGIN

Query Match 16.2%; Score 449; DB 9; Length 486;
Best Local Similarity 100.0%; Pred. No. 3.6e-225;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 963 ggcagatgctagctccatcaaaaaccagaagacactctggtgggaagcctatgtg 1022
|||||
DB 8 GGCAGTATGTCAGTCCATCAAAACCAAGGACACACTGTGGGGAAACCTTATGTG 67
|||||
QY 1023 tgcaggaattgtggcgaggttctacgtggaagcctcaactgatacacatcagaaga 1082
|||||
DB 68 TGCAGGAATGTGGCGGCGGCTTACGTGGAAGTCAAACTGATCAGATCAGAGCA 127
|||||
QY 1083 caaccaggggaacactatgtgtcgaagatgtgtgacgagaccttacttgaagtcg 1142
|||||
DB 128 CACTCAGGGGGAACCTATATGTGCAAGATTTGTGACAGGCTTACTTGGAAATCG 187
|||||
QY 1143 aacctcttacacatcagggagacactcaggtcctcaactatgtgtcagaagaat 1202
|||||
DB 188 AACCTTTTACATCAAGCGGACACACTCAGGCGCTCAAGCTTATGTGCAAGAA 247
|||||
QY 1203 gggcagagctttagcctgaagtcacactcattccaccagagggcgcaacgtgg 1262
|||||
DB 248 GGGCAGAGCTTTAGCTTAAGTCAAACTCAATCCACAGAGGGCCACACTGGGAG 307
|||||
QY 1263 aagcctatgttgcaggaattgtggtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1322
|||||
DB 308 AAGCTTATGTTTGCAGGAATGTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGT 367
|||||
QY 1323 cacaagagacacattcagaagaagcctacatttcagaagaattgtgtgtgtgtgt 1382
|||||
DB 368 CACAAGAGACACATTTCAGAGAGAGGCTTACATTTCAGAGAGTGTGAGACAGGCTTT 427
|||||
QY 1383 agccagaagtacacacctatcagacactt 1411
|||||
DB 428 AGCCAGAAGTCAACCTCATCAGACACTT 456

RESULT 14

AV720986	AV720986	486 bp	mRNA	linear	EST 16-OCT-2000
LOCUS					
DEFINITION	AV720986	HTB	Homo sapiens	CDNA clone HTBBIC05 5',	mRNA sequence.
ACCESSION	AV720986				
VERSION	AV720986.1	GI:10818138			
KEYWORDS	EST.				
SOURCE	human.				
ORGANISM	human.				

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	Gu, Y., Peng, Y., Song, H., Huang, Q., Yang, Y., Gao, G., Xiao, H., Xu, J. L. N., Qian, B., Liu, F., Qu, J., Gao, X., Cheng, Z., Xu, Z., Zheng, L., S., Gu, W., Yu, Y., Jia, J., Fu, G., Ren, S., Zhong, M., Lu, G., Hu, R., Chen, J., Chen, Z., and Han, Z.	Human sapiens cDNA HTB clones	Unpublished (2000)	
		Contact: Zequang Han		
		Chinese National Human Genome Center at Shanghai		
		351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai		
		201203, P. R. China		
		Tel.: 86-21-50801919 (ex.45)		
		Fax: 86-21-50801922		
		Email: hanzg@hgc.sh.cn		
		This clone is available at CHGC in Shanghai.		

FEATURES	source	Location/Qualifiers
-	1. 486	/organism="Homo sapiens" /db_xref="taxon:9606" /clone="HTBIC05" /clone_id="HTB" /tissue_type="Hypothalamus" /dev_stage="Adult" /lab_host="SOLR" /note="Vector: pBluescript sk(-); Site_1: EcoRI; Site_2 XhoI"
BASE COUNT	104 a	134 c 110 g 137 t 1 others
ORIGIN		

Query Match	15.1%	Score 419	DB 9	Length 486
Best Local Similarity	100.0%	Prod. No. 2,4e-209		
Matches 419	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY 2269	atccacctgaagagaaattgctgtgctcatl	ttcagaagccctgcctctcctaactgtga	2328	
DB 1	ATCCACCTGGAAGGAGAAATGCTGGCTCATTTT	CAGAGACCCTGCCCTTCCTCATGTGGA	60	
QY 2329	tgtgtgggtgtgtggaaaccggttcagtgat	atagtagtggcagagagcagtcacaaatgccag	2388	
DB 61	TGTGTGGTGTGTGGAAACCCGGTCAGATATGAT	GTATGTGTCAGAGAGGACAGTCAATATCCAG	120	
QY 2389	gcacatagagggttggtgtacctgtgtgaac	cccaaccttgaagctgtgaagacatgcctcgctaa	2448	
DB 121	GCAGATAGGGGTGGGTACTCTGTGAACCAAC	CAACTTTAAGCTGGAAGACAGTCCGGCTAA	180	
QY 2449	atcctctacacggaattgagaaccctgtctt	cccaattgtgtgtgtcttcctcogatgtatcc	2508	
DB 181	ATCTCTACATCGAATATGGAACCTGTCTTCCAT	TTTGGTGTCTTCCCTCCGATATGAATCC	240	
QY 2509	caacccttcacctaatttaagctaacctgcgc	ctcttcctcaattgtgttttcaacacgtgtg	2568	
DB 241	CAACCTTCACCTATTATTACGTATPACCTG	CCCTTTCCCTAATGTGGTTTTTACATCTGTG	300	
QY 2569	cccaacctttagagtgtgtccttgcatacta	ctaacaaatcagtcacagctgtlatccctaat	2628	
DB 301	CCCACCTTTTGAAGTGTCCTTTTCATCTTAA	CAAAATCAGTCAACAGTGTATTCCTCATTT	360	
QY 2629	cttgagcccataaagaagcccgagctcagtc	agctgcagtgagagagaagaataccacctgctgtg	2687	
DB 361	CTTGAGCCCATAAAGACCCACAGCTCAGTGA	GTAGAGAGAAATTCACCCCTGCTGTGG	419	

[illegible]

ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
Human					
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;					
Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.					
1 (bases 1 to 613)					
Hegde, P., Qi, R., Abernathy, K., Dharap, S., Gaspar, R., Gay, C., Holthuis,					
I.E., Saeed, A.I., Sharov, V., Lee, N.H., Yeatman, T.J. and					
Quackenbush, J.					
Assessment of gene expression patterns in a model of colon tumor					
metastasis using a 19,200 element cDNA microarray					
unpublished (2000)					
Contact: John Quackenbush					
The Institute for Genomic Research					
9712 Medical Center Dr., Rockville, MD 20850, USA					
Tel: 301 838 3528					
Fax: 301 838 0208					
Email: johnq@tigr.org					
Plate: 207					

FEATURES	Seq primer: Forward.
Source	Location/Qualifiers
	1. .613
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone_lib="MAGE ressequences, MAGH"
	/note="vector:pbuascriptsm"
BASE COUNT	171 a 140 c 158 g 144 t
ORIGIN	
Query Match	14.9%; Score 414; DB 9; Length 613;
Best Local Similarity	99.8%; Pred. NO. 1.1e-206; -

QY	2223	tgatgataatgaibaagactgactgaggaagctgtactctcaatccacttaagga	2282
Db	544	TGTGTGATTAATGATAGACTGACTGACTGATGAAGCTTGTATCTCATCCACTGAAGA	485 .
QY	2283	gaattgctggtcataltttcaggagccctggcccttcctcactg tggatgggtgtgga	2342
Db	484	GAATGTGGCTCATTTTCAGAGGCCCTGCCCTTCTCCTACTGTGATGTGGGTGTGGA	425
QY	2343	aaccggtcaggtaatgataagtgcaggaagcagttcaaatgcaccaggcagataagggtg	2402
Db	424	AACCGGTGACAGTAATGTAGTACGACGAGGACAGTCAATGCCCAGGCGAATAGGGGTGG	365
QY	2403	gtacctgtgaaacccaaccttaaacgtgaaagacagtcgcggtctaactcctaatgga	2462
Db	364	GTACCTGGTGAACCCCACTTTAAAGCTGAAGACAGTCCGGCTTAATCTCATCTGGA	305
QY	2463	ttgagaacctgctctcccatltgtgtgtccttcctcgatgtgatacccaacctcaacta	2522
Db	304	TTTGGAACCTGCTCTCCATTTGGTGTGCTTTCTCCGATGATATCCCAACCTTCACTGA	245
QY	2523	tttaacgtaacctggcccttcctcctaatttggttttaagactgctgtgcccaccttttgat	2582
Db	244	TTTACGTAATCTGCCCCCTTCTCTAATTTGGTTTATACATGCTGTGGCCCACTTTTGGAT	185
QY	2583	ggtgctcttgataacttaacaatcagttcaacgtgtatctccctatcttgagcccaataaa	2642
Db	184	GGTGCTTTGCATCTTTCACAATGACGTCAAGTGATTTCCCTATTTTGAGGCCATTAAAA	125
QY	2643	gaccagaactcagctgcagtgagagagaagaatacaacctgcgtgtg 2687	
Db	124	GACCCAGACTAGCTGACGTAGGAGGAATAATCAACCTGCTGTGG 80	

Sat May 18 14:46:07 2002

us-09-898-556a-3.rst

Page 11

Search completed: May 17, 2002, 09:22:49
Job time: 71046 sec

GenCore version 4.5
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OM nucleic : nucleic search, using sw model

Run on: May 17, 2002, 13:55:18 ; Search time 105.07 seconds
(without alignments)
6480.404 Million cell updates/sec

Title: US-09-898-556A-3
Perfect score: 2772
Sequence: 1 cagcgcgttaagctgttg.....ttctaccatctaccct 2772

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 383533 seqs, 122816752 residues

Word size : 0

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_NA:*

1: /cgn2_6/prodata/1/lna/5A_COMB.seq:*
2: /cgn2_6/prodata/1/lna/5B_COMB.seq:*
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4: /cgn2_6/prodata/1/lna/6B_COMB.seq:*
5: /cgn2_6/prodata/1/lna/PCrUS_COMB.seq:*
6: /cgn2_6/prodata/1/lna/backfillseq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	0.8	2382	4 US-09-588-256-9	Sequence 9, Appli
2	20	0.7	1892	2 US-08-933-750C-66	Sequence 66, Appl
3	20	0.7	1892	3 US-09-234-613-66	Sequence 66, Appl
4	19	0.7	3240	4 US-09-262-773-7	Sequence 7, Appli
5	19	0.7	3240	4 US-09-262-773-3	Sequence 3, Appli
6	19	0.7	3264	4 US-09-262-773-5	Sequence 5, Appli
7	19	0.7	3268	4 US-09-262-773-1	Sequence 1, Appli
8	19	0.7	3810	2 US-08-475-844-8	Sequence 8, Appli
9	19	0.7	3810	5 PCr-US95-08429-8	Sequence 8, Appli
10	19	0.7	20137	4 US-09-262-773-206	Sequence 206, App
11	19	0.7	20138	4 US-09-262-773-9	Sequence 9, Appli
12	19	0.7	23071	4 US-09-262-773-210	Sequence 210, App
13	19	0.7	246240	2 US-08-724-394A-20	Sequence 20, Appl
14	19	0.7	246240	2 US-08-724-394A-21	Sequence 21, Appl
15	19	0.7	246240	2 US-08-724-394A-22	Sequence 22, Appl
16	18	0.6	575	1 US-08-507-016-8	Sequence 8, Appli
17	18	0.6	1027	4 US-09-303-524A-1	Sequence 9, Appli
18	18	0.6	1558	1 US-08-416-870C-9	Sequence 9, Appli
19	18	0.6	2133	2 US-08-820-170A-11	Sequence 11, Appl
20	18	0.6	2133	3 US-09-055-699-11	Sequence 11, Appl
21	18	0.6	2133	4 US-09-273-565-11	Sequence 11, Appl
22	18	0.6	2133	4 US-09-565-538-11	Sequence 11, Appl
23	18	0.6	3754	2 US-08-820-170A-12	Sequence 12, Appl
24	18	0.6	3754	3 US-09-055-699-12	Sequence 12, Appl
25	18	0.6	3754	4 US-09-273-565-12	Sequence 12, Appl
26	18	0.6	3754	4 US-09-565-538-12	Sequence 12, Appl
27	18	0.6	7886	2 US-08-751-189-2	Sequence 2, Appli

c	28	18	0.6	7886	2 US-09-060-836-2	Sequence 2, Appli
c	29	18	0.6	7886	4 US-09-184-445-2	Sequence 2, Appli
c	30	17	0.6	80	5 PCr-US91-02942-99	Sequence 9, Appli
c	31	17	0.6	273	3 US-08-956-182-21	Sequence 21, Appl
c	32	17	0.6	289	1 US-08-592-126-124	Sequence 124, App
c	33	17	0.6	347	4 US-08-905-223-133	Sequence 133, App
c	34	17	0.6	532	4 US-09-328-111-648	Sequence 648, App
c	35	17	0.6	563	4 US-09-385-982-433	Sequence 433, App
c	36	17	0.6	732	3 US-08-956-182-16	Sequence 16, Appl
c	37	17	0.6	1362	4 US-09-171-461-47	Sequence 47, Appl
c	38	17	0.6	1561	1 US-07-662-007B-38	Sequence 38, Appl
c	39	17	0.6	1561	1 US-07-968-971A-1	Sequence 1, Appli
c	40	17	0.6	1561	1 US-07-824-247-38	Sequence 38, Appl
c	41	17	0.6	1561	1 US-07-824-247-41	Sequence 41, Appl
c	42	17	0.6	1561	1 US-08-142-473A-1	Sequence 1, Appli
c	43	17	0.6	1561	1 US-08-424-406-1	Sequence 1, Appli
c	44	17	0.6	1561	1 US-08-464-523B-5	Sequence 5, Appli
c	45	17	0.6	1561	1 US-08-469-203A-1	Sequence 1, Appli

ALIGNMENTS

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RESULT 1
US-09-588-256-9
; Sequence 9, Application US/09588256
; Patent No. 6291665
; GENERAL INFORMATION:
; APPLICANT: Gaffney, Thomas
; APPLICANT: Flavler, Albert
; APPLICANT: Gates, Krista
; APPLICANT: Wendland, Juergen
; APPLICANT: Ayad-Durieux, Yasmina
; APPLICANT: Dietrich, Fred
; APPLICANT: Philippsen, Peter
; TITLE OF INVENTION: Fungal Target Genes and Methods
; FILE REFERENCE: PB/5-30908A
; CURRENT APPLICATION NUMBER: US/09/588,256
; CURRENT FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 9
; LENGTH: 2382
; TYPE: DNA
; ORGANISM: Asbya gossypii
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2382)
; US-09-588-256-9

Query Match 0.8%; Score 21; DB 4; Length 2382;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1875 ggccttgctgaactact 1895
Db 1990 ggccttgctgaactact 2010

RESULT 2
US-08-933-750C-66
; Sequence 66, Application US/08933750C
; Patent No. 5932442
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Bandman, Olga
; APPLICANT: Shah, Purvi
; APPLICANT: Au-Young, Janice
; APPLICANT: Yue, Henry
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
```

;; TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
;; NUMBER OF SEQUENCES: 98
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/933,750C
;; FILING DATE: September 23, 1997
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0356 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-855-0555
;; TELEFAX: 415-845-4166
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 66:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1892 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: BRSTNOT03
;; CLONE: 641127
;; US-09-933-750C-66

Query Match 0.7%; Score 20; DB 2; Length 1892;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1419 cacacagagagaagcctta 1438
|||||
DB 1289 CACACAGAGAGAGACCTTA 1308

RESULT 3
US-09-234-613-66
;; Sequence 66, Application US/09234613
;; Patent No. 6132973
;; GENERAL INFORMATION:
;; APPLICANT: Lal, Preeti
;; APPLICANT: Hillman, Jennifer L.
;; APPLICANT: Bandman, Olga
;; APPLICANT: Shah, Purvi
;; APPLICANT: Au-Young, Janice
;; APPLICANT: Yue, Henry
;; APPLICANT: Guegler, Karl J.
;; APPLICANT: Corley, Nell C.
;; TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
;; NUMBER OF SEQUENCES: 98
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/234,613
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/933,750
;; FILING DATE: September 23, 1997
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0356 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-855-0555
;; TELEFAX: 415-845-4166
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 66:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1892 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: BRSTNOT03
;; CLONE: 641127
;; US-09-234-613-66

Query Match 0.7%; Score 20; DB 3; Length 1892;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1419 cacacagagagaagcctta 1438
|||||
DB 1289 CACACAGAGAGAGACCTTA 1308

RESULT 4
US-09-262-773-7
;; Sequence 7, Application US/09262773
;; Patent No. 6225451
;; GENERAL INFORMATION:
;; APPLICANT: Ballinger, Dennis G.
;; APPLICANT: Ding, Wei
;; APPLICANT: Wagner, Susanne
;; APPLICANT: Hess, Mark A.
;; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
;; FILE REFERENCE: Myriad 3
;; CURRENT APPLICATION NUMBER: US/09/262,773
;; CURRENT FILING DATE: 1999-03-04
;; NUMBER OF SEQ ID NOS: 210
;; SOFTWARE: Patentin Ver. 2.0
;; SEQ ID NO 7
;; LENGTH: 3240
;; TYPE: DNA
;; ORGANISM: human
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (98)..(523)
;; US-09-262-773-7

Query Match 0.7%; Score 19; DB 4; Length 3240;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2068 tcagacatcagagagaca 2086
|||||
DB 1559 tcagacatcagagagaca 1577

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RESULT 5
US-09-262-773-3
; Sequence 3, Application US/09262773
; Patent No. 6225451
; GENERAL INFORMATION:
; APPLICANT: Ballinger, Dennis G.
; APPLICANT: Ding, Wei
; APPLICANT: Wagner, Susanne
; APPLICANT: Hess, Mark A.
; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
; FILE REFERENCE: Myriad 3
; CURRENT APPLICATION NUMBER: US/09/262,773
; CURRENT FILING DATE: 1999-03-04
; NUMBER OF SEQ ID NOS: 210
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 3244
; TYPE: DNA
; ORGANISM: human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (98)..(2017)
US-09-262-773-3
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Query Match 0.7%; Score 19; DB 4; Length 3244;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 2068 tcagacatcagagagacaca 2086
Db 1563 tcagacatcagagagacaca 1581
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RESULT 6
US-09-262-773-5
; Sequence 5, Application US/09262773
; Patent No. 6225451
; GENERAL INFORMATION:
; APPLICANT: Ballinger, Dennis G.
; APPLICANT: Ding, Wei
; APPLICANT: Wagner, Susanne
; APPLICANT: Hess, Mark A.
; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
; FILE REFERENCE: Myriad 3
; CURRENT APPLICATION NUMBER: US/09/262,773
; CURRENT FILING DATE: 1999-03-04
; NUMBER OF SEQ ID NOS: 210
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 3264
; TYPE: DNA
; ORGANISM: human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (98)..(496)
US-09-262-773-5
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Query Match 0.7%; Score 19; DB 4; Length 3264;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 2068 tcagacatcagagagacaca 2086
Db 1583 tcagacatcagagagacaca 1601
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RESULT 7
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US-09-262-773-1
; Sequence 1, Application US/09262773
; Patent No. 6225451
; GENERAL INFORMATION:
; APPLICANT: Ballinger, Dennis G.
; APPLICANT: Ding, Wei
; APPLICANT: Wagner, Susanne
; APPLICANT: Hess, Mark A.
; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
; FILE REFERENCE: Myriad 3
; CURRENT APPLICATION NUMBER: US/09/262,773
; CURRENT FILING DATE: 1999-03-04
; NUMBER OF SEQ ID NOS: 210
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 3268
; TYPE: DNA
; ORGANISM: human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (98)..(2041)
US-09-262-773-1
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Query Match 0.7%; Score 19; DB 4; Length 3268;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 2068 tcagacatcagagagacaca 2086
Db 1587 tcagacatcagagagacaca 1605
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RESULT 8
US-08-475-844-8
; Sequence 8, Application US/08475844
; Patent No. 5972643
; GENERAL INFORMATION:
; APPLICANT: Lobanenko, Victor V.
; APPLICANT: Neiman, Paul E.
; APPLICANT: Klenova, Elena M.
; APPLICANT: Goodwin, Graham H.
; APPLICANT: Filippova, Galina N.
; APPLICANT: Collins, Steven J.
; TITLE OF INVENTION: CTCF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend Kourile and Crew
; STREET: One Market Plaza
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/475,844
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/261,680
; FILING DATE: 17-JUN-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 14538A-11-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-467-9600
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TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 3810 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   ORIGINAL SOURCE:
;     ORGANISM: Homo sapiens
;     IMMEDIATE SOURCE:
;     CLONE: human CTCF cDNA
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 292..2475
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 281..1074
;   OTHER INFORMATION: /label= exon2
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1075..1245
;   OTHER INFORMATION: /label= exon3
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1246..1379
;   OTHER INFORMATION: /label= exon4
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1380..1499
;   OTHER INFORMATION: /label= exon5
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1500..1649
;   OTHER INFORMATION: /label= exon6
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1650..1810
;   OTHER INFORMATION: /label= exon7
;   NAME/KEY: exon
;     LOCATION: 1810..1992
;   OTHER INFORMATION: /label= exon8
; US-08-475-844-8

Query Match      0.7%; Score 19; DB 2; Length 3810;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1755 catcagggaagaagcctt 1773
DB 1492 CATTCAGGGGAAAGCCTT 1510

RESULT 9
PCT-US95-08429-8
; Sequence 8, Application PC/TUS9508429
; GENERAL INFORMATION:
;   APPLICANT:
;   TITLE OF INVENTION: CTCF
;   NUMBER OF SEQUENCES: 21
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: Patent Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: PCT/US95/08429
;     FILING DATE: 15-JUN-1995
;     CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US 08/261,680
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FILING DATE: 17-JUN-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
;   NAME: Parmelee, Steven W.
;   REGISTRATION NUMBER: 31,990
;   REFERENCE/DOCKET NUMBER: 14538A-11-1PC
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 206-467-9600
;   TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 3810 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   ORIGINAL SOURCE:
;     ORGANISM: Homo sapiens
;     IMMEDIATE SOURCE:
;     CLONE: human CTCF cDNA
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 292..2475
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 281..1074
;   OTHER INFORMATION: /label= exon2
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1075..1245
;   OTHER INFORMATION: /label= exon3
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1246..1379
;   OTHER INFORMATION: /label= exon4
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1380..1499
;   OTHER INFORMATION: /label= exon5
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1500..1649
;   OTHER INFORMATION: /label= exon6
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1650..1810
;   OTHER INFORMATION: /label= exon7
;   FEATURE:
;     NAME/KEY: exon
;     LOCATION: 1810..1992
;   OTHER INFORMATION: /label= exon8
; PCT-US95-08429-8

Query Match      0.7%; Score 19; DB 5; Length 3810;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1755 catcagggaagaagcctt 1773
DB 1492 CATTCAGGGGAAAGCCTT 1510

RESULT 10
US-09-262-773-206
; Sequence 206, Application US/09262773
; Patent No. 6225451
; GENERAL INFORMATION:
;   APPLICANT: Ballinger, Dennis G.
;   APPLICANT: Ding, Wei
;   APPLICANT: Wagner, Susanne
;   APPLICANT: Hess, Mark A.
;   TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
```

;; TITLE OF INVENTION: SUSCEPTIBILITY GENE CHD1
;; FILE REFERENCE: Myriad 3
;; CURRENT APPLICATION NUMBER: US/09/262,773
;; CURRENT FILING DATE: 1999-03-04
;; NUMBER OF SEQ ID NOS: 210
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 206
;; LENGTH: 20137
;; TYPE: DNA
;; ORGANISM: human
US-09-262-773-206

Query Match 0.7%; Score 19; DB 4; Length 20137;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcagacatcagagagacaca 2086
|||||
Db 14680 tcagacatcagagagacaca 14698

RESULT 11
US-09-262-773-9
;; Sequence 9, Application US/09262773
;; Patent No. 6225451
;; GENERAL INFORMATION:
;; APPLICANT: Ballinger, Dennis G.
;; APPLICANT: Ding, Wei
;; APPLICANT: Wagner, Susanne
;; APPLICANT: Hess, Mark A.
;; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
;; TITLE OF INVENTION: SUSCEPTIBILITY GENE CHD1
;; FILE REFERENCE: Myriad 3
;; CURRENT APPLICATION NUMBER: US/09/262,773
;; CURRENT FILING DATE: 1999-03-04
;; NUMBER OF SEQ ID NOS: 210
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 9
;; LENGTH: 20138
;; TYPE: DNA
;; ORGANISM: human
US-09-262-773-9

Query Match 0.7%; Score 19; DB 4; Length 20138;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcagacatcagagagacaca 2086
|||||
Db 14681 tcagacatcagagagacaca 14699

RESULT 12
US-09-262-773-210
;; Sequence 210, Application US/09262773
;; Patent No. 6225451
;; GENERAL INFORMATION:
;; APPLICANT: Ballinger, Dennis G.
;; APPLICANT: Ding, Wei
;; APPLICANT: Wagner, Susanne
;; APPLICANT: Hess, Mark A.
;; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE
;; TITLE OF INVENTION: SUSCEPTIBILITY GENE CHD1
;; FILE REFERENCE: Myriad 3
;; CURRENT APPLICATION NUMBER: US/09/262,773
;; CURRENT FILING DATE: 1999-03-04
;; NUMBER OF SEQ ID NOS: 210
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 210
;; LENGTH: 23071
;; TYPE: DNA

;; ORGANISM: human
US-09-262-773-210

Query Match 0.7%; Score 19; DB 4; Length 23071;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcagacatcagagagacaca 2086
|||||
Db 17614 tcagacatcagagagacaca 17632

RESULT 13
US-08-724-394A-20/C
;; Sequence 20, Application US/08724394A
;; Patent No. 5872237
;; GENERAL INFORMATION:
;; APPLICANT: Feder, John N.
;; APPLICANT: Kronmal, Gregory S.
;; APPLICANT: Lauer, Peter M.
;; APPLICANT: Ruddy, David A.
;; APPLICANT: Thomas, Winston
;; APPLICANT: Tsuchihashi, Zenta
;; APPLICANT: Wolff, Roger K.
;; TITLE OF INVENTION: Megabase Transcript Map: No. 5872237e1
;; TITLE OF INVENTION: Sequences and Antibodies Thereeto
;; NUMBER OF SEQUENCES: 31
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
;; STREET: Two Embarcadero Center, 8th floor
;; CITY: San Francisco
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94111-3834
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/724,394A
;; FILING DATE: 01-OCT-1996
;; CLASSIFICATION: 536
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Filts, Renee A. 35,136
;; REGISTRATION NUMBER: 017957-000100
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-576-0200
;; TELEFAX: 415-576-0300
;; INFORMATION FOR SEQ ID NO: 20:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 246240 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: not relevant
;; TOPOLOGY: not relevant
;; MOLECULE TYPE: CDNA
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: 1..246240
;; OTHER INFORMATION: /note="HLA-H.CONTIG"
US-08-724-394A-20

Query Match 0.7%; Score 19; DB 2; Length 246240;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2298 tttagagagcctgcctt 2316
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Db 36115 tttagagagcctgcctt 36097

RESULT 14
US-08-724-394A-21/c
Sequence 21, Application US/08724394A
Patent No. 5872237
GENERAL INFORMATION:
APPLICANT: Feder, John N.
APPLICANT: Kronmal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Tsuchihashi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237e1
TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Fitts, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 246240 base pairs
TYPE: nucleic acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..246240
OTHER INFORMATION: /note= "HLA-H.CONTIG"
US-08-724-394A-21

Query Match 0.7%; Score 19; DB 2; Length 246240;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2298 ttccagagccctgcctt 2316
|||||
Db 36115 TTTCAGAGCCCTGCCCTT 36097

RESULT 15
US-08-724-394A-22/c
Sequence 22, Application US/08724394A
Patent No. 5872237
GENERAL INFORMATION:
APPLICANT: Feder, John N.
APPLICANT: Kronmal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Tsuchihashi, Zenta

APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237e1
TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Fitts, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
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INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 246240 base pairs
TYPE: nucleic acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..246240
OTHER INFORMATION: /note= "HLA-H.CONTIG"
US-08-724-394A-22

Query Match 0.7%; Score 19; DB 2; Length 246240;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2298 ttccagagccctgcctt 2316
|||||
Db 36115 TTTCAGAGCCCTGCCCTT 36097

Search completed: May 17, 2002, 16:27:42
Job time: 9144 sec

Sat May 18 14:46:06 2002

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